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The McGraw Waterworks Directory

1915

McGraw Publishing Company, Inc.

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The McGraw Waterworks Directory 1915

Compiled and Published Annually by the

McGraw Publishing Company, Inc.

239 West 39th Street, New York

PUBLISHERS OF ENGINEERING RECORD

Price, $15.00

The Waterworks Buyers' Guide and Reference Manual is published in connection with this Directory and is furnished to all superintendents or engineers of waterworks in return for the information furnished us by them concerning their plants.

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3-15-43 D14

PREFACE

THE first issue of the McGraw Waterworks Directory lists 5,185 towns in the United States and Canada.

It has been the endeavor to give the essential facts about the ownership and management, source of supply, purification, pumping equipment, distributing system and rates for every waterworks. To do this requires for the first edition a book double the size of the one originally planned.

The book is arranged alphabetically by States with the towns in alphabetical order under each State. The description of each waterworks is given under the town which it supplies, and if additional towns are supplied from the same plant, they are listed after the statement about ownership.

The statistical summary in the back of the book gives not only the analysis of ownership and total number of towns by States, but also some columns showing the use of pumping equipment other than steam. Everything has been done short of a field census to make this Directory complete. It is not claimed that it is so; future issues will approach nearer the goal. That the first edition contains so much information is due largely to the hearty co-operation extended by waterworks engineers and superintendents throughout the country.

Sincere thanks are also due the many State commissions and State boards of health for their ready response to requests for data. Much information has been obtained from the Canadian Conservation Commission's report on the "Waterworks of Canada," by Leo G. Denis; from the National Board of Fire Underwriters; and from Moody's Manual have been taken the financial relations of some of the incorporated companies.

283344

ABBREVIATIONS

THE rating of the pumps and filters is given in United States gallons per 24 hours for the United States, and Imperial gallons for Canada.

The capacity of air compressors is in cubic feet of free air per minute.

The per cent. given after average daily consumption is the per cent. of water accounted for.

The word various means various makers.

For flat rates the first charge is as nearly as possible for houses of six rooms and families of five persons. Where the minimum charge for meter services is graduated according to size of connection, the minimum charge for a ¾-in. connection is given.

TERMS

*	estimated population
a. c.	alternating current
av. daily cons.	average daily consumption
Bd.	Board
c. & f. wh.	crank & flywheel
c. i.	cast iron
Ch. Engr.	Chief Engineer
Chmn.	Chairman
comp.	compound
Comr.	Commissioner
con.	connected or connection
cons.	consumption
Cons. Engr.	Consulting Engineer
Contg. Agt.	Contracting Agent
cu.	cubic
cys.	cycles
diam.	diameter
d. act.	direct acting
d. c.	direct current
d. con.	direct connected
Dir.	Director
ea.	each
elec.	electric
elev.	elevated
Engr.	Engineer
Engr. P'g. Sta.	Engineer Pumping Station
ft.	foot or feet
gal.	gallon
galv.	galvanized
Gen.	General
h.	hand
hor.	horizontal
hp.	horse-power
hyd.	hydrant
in.	inches
kva.	kilovolt-amperes
kw.	kilowatts
l.	left
lt.	light
max.	maximum
Mgr.	Manager
mech.	mechanical
Mbr.	Member
mi.	mile
min.	minimum
mo.	month
ord.	ordinary
ph.	phase
pwr.	power
Pres.	President
pres.	pressure
Pub.	Public
Pur. Agt.	Purchasing Agent
Rec.	Recorder
r.	right
Sec.	Secretary
serv.	service
s.	single
Supt.	Superintendent
thd.	thread
Treas.	Treasurer
tri. exp.	triplex expansion
vert.	vertical
V. Pres.	Vice-President
Vil.	Village
v.	volts
wtr.	water
w. i.	wrought iron

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CONTRACTIONS FOR MANUFACTURERS

A. B. C.—American Blower Co.
B. J.—Byron Jackson
B. & W.—Babcock & Wilcox
BLAKE—Blake & Knowles Steam Pump Works
BOSTON—The Boston Machine Co.
BOURBON—The Bourbon Copper & Brass Works
BROWNELL—The Brownell Co.
BUFFALO—Buffalo Steam Pump Co., and Buffalo Meter Co.
BUILDERS—Builders Iron Foundry
CASEY-HEDGES—The Casey-Hedges Co.
CANTON—Canton-Hughes Pump Co.
CENTURY—Century Electric Co.
CHAPMAN—Chapman Valve Mfg. Co.
CLEVELAND—Cleveland Steam Boilers Works
CLOW—Jas. B. Clow & Sons, Inc.
COFFIN—Coffin Valve Co.
COLE—R. D. Cole Mfg. Co.
COLUMBIAN—Columbian Iron Works
COOK—A. D. Cook
CRANE—Crane Co.
CROCKER-WHEELER—The Crocker-Wheeler Co.
DARLING—Darling Pump & Mfg. Co.
DAYTON—Dayton Pump & Mfg. Co.
DEANE—The Deane Steam Pump Co.
DE LAVAL—De Laval Steam Turbine Co.
DE LA VERGNE—De La Vergne Machine Co.
DEMING—The Deming Co.
D'OLIER—D'Olier Engineering Co.
DOW—Dow Pumping Engine Co.
EDDY—Eddy Valve Co.
EDGE-MOOR—Edge-Moor Iron Co.
EPPING - CARPENTER — Epping - Carpenter Pump Co.
ERIE—Erie City Iron Works
EUREKA—Eureka Fire Hose Co.
F. M.—Fairbanks, Morse & Co.
FAIRBANKS—The Fairbanks Co.
FOOS—Foos Gas Engine Co.
FREEMAN—Freeman & Sons Mfg. Co.
FROST—Frost Mfg. Co.
FT. WAYNE—Ft. Wayne Elec. Works
GARDNER—The Gardner Governor Co.
GEM—Gem City Boiler Works.
G. E.—General Electric Co.
GEN. FIRE—General Fire Extinguisher Co.
GOULDS—The Goulds Mfg. Co.
H. & H.—Henion & Hubbell.
H. S. G.—Houston, Stanwood & Gamble Co.
HARDIE-TYNES—Hardie-Tynes Mfg. Co.
HARRISBURG—Harrisburg Foundry & Machine Works
HARTLEY—Hartley Boiler Works
HEINE—The Heine Safety Boiler Co.
HERSEY—Hersey Mfg. Co.
HOLLY—Holly Mfg. Co., Erie (Hyd.)
" " " Buffalo (Pumps)
INGERSOLL-RAND—The Ingersoll-Rand Co.
INTERNATIONAL—International Gas Engine Co.
IOWA—Iowa Mfg. Co., Oskaloosa
JEANESVILLE—Jeanesville Iron Works
KEYSTONE—Keystone Driller Mfg. Co.
KNOWLES—Knowles Steam Pump Works
KROGH—Krogh Mfg. Co.
KUPFERLE—John C. Kupferle Foundry Co.
L-D-G—Laidlaw-Dunn-Gordon Co.
LOMBARD—Lombard Iron Wks. & Supply Co.
LUDLOW—The Ludlow Valve Mfg. Co.
LUITWEILER—Luitweiler Pumping Engine Co.
LUNKENHEIMER—The Lunkenheimer Co.
McGOWAN—The John H. McGowan Co.
MICHIGAN—Michigan Boiler & Iron Works
MORRIS—I. P. Morris & Co.
MURRAY—Murray Iron Works
NATIONAL—National Meter Co.
" —The National Steam Pump Co.
NEPTUNE—Neptune Meter Co.
NORDBERG—Nordberg Mfg. Co.
NORWOOD—Norwood Engineering Co.
O'BRIEN—John O'Brien Boiler Works Co.
OIL CITY—Oil City Boiler Works
OLDS—Olds Gas Power Co.
OTTO—Otto Gas Engine Works
PITTSBURGH—Pittsburgh Meter Co.
PLATT—The Platt Iron Works Co.
PRATT & CADY—The Pratt & Cady Co.
R. D. W.—R. D. Wood & Co.
TERRY—Terry Steam Turbine Co.
THOMSON—Thomson Meter Co.
UNION—Union Steam Pump Co.
UNITED—United Iron Wks.
VAN WIE—Van Wie Pump Co.
VOGT—Henry Vogt Mach. Co.
W. & W.—Walsh & Weidener Boiler Co.
WAGNER—Wagner Electric Mfg. Co.
WESTERN—Western Gas Engine Corpn.
WESTG.—Westinghouse Elec. & Mfg. Co.
WICKES—Wickes Boiler Co.
WORTH.—Henry R. Worthington.

ALABAMA

ABBEVILLE, 1,141.
MUNICIPAL LIGHT & WATER PLANT.
Mayor, W. C. Saunders.....Abbeville
Clerk, J. A. Saunders..... "
Treas., Frank Murphy..... "
Supt., W. A. McClellan..... "
Boilers, 250-hp. Cole & Hartley; steam engine, 100-hp. Corliss-Hamilton.

ALEXANDER CITY, 1,710.
MUNICIPAL LIGHT & WATER WORKS.
Sec. & Treas., C. H. Thompson.....Alexander City
Supt. & Ch. Engr., J. A. Foley..... " "
Boiler, 200-hp. Cole; engine, 150-hp. Hardie-Tyne.

ANDALUSIA, 2,481.
ANDALUSIA LIGHT & POWER CO.
Pres., J. D. Henderson.....Andalusia
V. Pres., G. O. Wait..... "
Sec., A. C. Darling..... "
Treas. & Gen. Mgr., J. L. Knox "
Supt. & Des. Engr., H. Z. Wilkinson..... "
Artesian wells, 3 2 to 4-in. 450 to 500 ft. deep; near center distribution; no purification.
Boilers, 2 marine 150-hp. W. & W.; hand stoking; pumps, 2 comp. duplex steam Gardner; d. con. to elec. generators, 3 3 ph. 60 cys. 2300 v. G. E.; pumping direct & to reservoir, 200,000 gal.
Pipe, 5.25 mi. 4 to 8-in. c. i.; hyd. 40, hose con. 2½-in. Chapman & Kupferle; valves, 20 r. h. thd. Crane & National; meters, 250 Neptune, Pittsburgh & Hersey; av. daily cons. 200,000-gal.; serv. con. 300; ord. pres. 50 to 55 lb., fire pres. 120 to 130 lb.
Rates: flat, $2.50 quarter; meter, $3 quarter 6000 gal., 50c. 1000 gal. max., 25c. min.

ANNISTON, 12,794.
ANNISTON WATER SUPPLY CO. Supplies Oxford and Blue Mountain.
Pres., W. C. Hamilton.....Anniston
Sec. & Mgr., H. B. Rudisill..... "
Springs; reservoir, 7,000,000 gal.; no purification.
Boilers, 2 return tubular 80-hp. W. & W., one water-tube Vogt; pumps, 2 steam Holly (not used), 1-3,000,000 gal. elec. driven centrifugal.
Pipe, 30 mi. 4 to 20-in. c. i. hyd. 134, mostly R. D. W.; valves, 125; meters, 1500; av. daily cons. 1,500,000 gal.; serv. con. 1800; ord. pres. 70 to 125 lb.

ATMORE, 1,160.
MUNICIPAL.
Mayor, W. E. Rushing.....Atmore
City Clerk, D. J. Baggett..... "
Chmn. Comrs., C. C. Huxford..... "
Supt. & Engr. P'g Sta., J. E. Thompson..... "
Wells, 10 3-in. 55-ft. deep; in center business section; no purification.
Boilers, 2 tubular 80-hp. ea. 100 lb. Cole 1914; hand stoking; pumps, 2-720,000 gal. hor. comp. d. act. Platt 1914; pumping to to elev. tank (1914) 60,000 gal. steel, Chattanooga Boiler & Tank Co.
Pipe, 3 mi. 2 to 8-in. c. & galv. i.; hyd. 15, hose con. 4-in. R. D. W.; valves, 10 r. h. opening Crane; av. daily cons. 60,000 gal.; serv. con. 200; ord. pres. 40 lb., fire pres. 100 lb.
Rates: flat, $1 mo., bath $1, closet $1.

ATTALLA, 2,513.
MUNICIPAL. The Attalla Light & Power Company.
Mgr., W. R. Hall.....Anniston
Supt., W. Stanley..... "

AVONDALE, 2,060.
Supplied by the Birmingham Waterworks Company. See Birmingham.

BAY MINETTE, 749.
MUNICIPAL.
Mayor, W. E. Stapleton.....Bay Minette
Town Clerk, J. M. Franklin.. " "
Cons. Engr., Edgar Kay.....Tuscaloosa
Bids were received in Dec., 1914, for a complete system.

BESSEMER, 14,000.
BESSEMER WATER WORKS. Supplies Brighton.
Pres., Morris Adler.....Bessemer
V. Pres., E. L. Adler..... "
Cashier, Homer A. Hurd..... "
Supt., J. F. Gammon..... "
Springs; impounding reservoir; no purification.
Boilers, 2 vertical 150-hp. ea. Wickes; hand stroking; pumps, 2-1,500,000 gal. McGowan; pumping to reservoir, 12x300 ft. 5,000,000 gal.
Pipe, 16.75 mi. 4 to 30-in. c. i.; hyd. 99, hose con. 2½ & 5-in. Bourbon; valves, l. h. opening Bourbon; meters, 1600 National, Neptune and Worthington; av. daily cons. 1,000,000 gal.; serv. con. 2700; ord. pres. 80 to 85 lb., fire pres. same.

BIRMINGHAM, 132,625.
BIRMINGHAM WATERWORKS COMPANY. (Controlled by American Water Works and Electric Company, 50 Broad St., New York, N. Y.)
Pres., A. M. Lynn.....New York, N. Y.
V. Pres., D. M. Watt..... " " " "
Sec., W. D. Freer..... " " " "
Treas., M. F. Riley..... " " " "
Supt., H. H. Horner.....Birmingham
Ch. Engr.,
G. W. Biggs.....New York, N. Y.
Cahaba River & Five Mile Creek; 10 mi. from center distribution; settling basins, 2-118,760,000 gal.; mech. filters, 5,000,000 gal.

chemical, sulphate of alumina & hypochlorite of lime.

Cahaba Sta.: boilers, 14 hor. tubular & water-tube 1,972-hp. B. & W. & Atlas; hand stoking; 4-29,000,000 gal. Worth., Knowles & Epping-Carpenter; pumping direct & to reservoir, 3,000,000 gal. No. Birmingham Sta.: boilers, 4 hor. tubular 80-hp. ea.; 5,000,000 gal. steam R. D. W., 2-5,000,000 gal. ea. centrifugal Lawrence; pumping to reservoir, 10,000,000 gal. Rosedale Sta.: boilers, 2 hor. tubular 100-hp. Erie; pumps, 2 steam Jeanesville; pumping to standpipe, Shades Mt. Boat Sta.: pumps, 2-5,000,000 gal. centrifugal d. con. to elec. motor, 50-hp. Westg.

Pipe, 206 mi. 4 to over 30-in. c.i.; hyd. 978, hose con. 2½-in. Ludlow; valves, Ludlow; meters, 11,719; av. daily con. 20,000,000 gal.; serv. con. 22,583; ord. pres. 80 lb.

MUNICIPAL LIGHT & WATER PLANT.

Pres. Comrs., Geo. B. Ward...Birmingham
Comr., James Weatherly..... "
" A. O. Lane..... "
" Charles H. Abbott.... "
Supt., W. H. Abernathy..... "

Boiler, 700-hp. Erie; steam engine, 450-hp. Hardie-Tyne.

BLUE MOUNTAIN.

Supply from Anniston.

BREWTON, 2,189.

MUNICIPAL WATER & ELECTRIC LIGHT WORKS.

Sec. & Treas., G. B. Hayes.....Brewton
Mgr., J. S. Halland..... "
Pur. Agt., W. F. Wilson..... "
Supt., J. N. Dannon..... "
Engr. P'g Sta., Sam Morris..... "

BRIDGEPORT, 2,125.

BRIDGEPORT REALTY & TRACTION CO.

Supt., A. D. Hull.....Bridgeport

Mountain spring, 4½ mi. from center distribution & river during dry weather; tank, 750,000 gal. steel; no purification.

Boilers, 1 marine 60-hp.; hand stoking; pumps, 1-8,000 gal. Blake; pumping direct.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd., 40; meters, 25 various; serv. con. 250; ord. pres. 110 lb., fire pres. same.

Rates: flat, $1.25 mo.; meter, 50c. 1000 gal. max. with diminishing scale.

BRIGHTON, 1,502.

Supply from Bessemer.

BRUNDIDGE, 815.

MUNICIPAL LIGHT AND WATERWORKS.

Mayor, W. L. Fleming.....Brundidge
City Clerk, F. A. Wood..... "
Mgr. & Supt., C. E. Morris..... "
Engr. P'g. Sta., G. B. Shunko... "

Artesian well, one 8-in. 365 ft. deep; 900 ft. from center distribution; no purification.

Boiler, 1 hor. 100-hp. Gem; hand stoking; pump, 1-720,000 gal. Platt; pumping to standpipe (1907) 65,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 12, hose con. 3-in.; meters, 140 Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 140; ord. pres. 35 to 50 lb., fire pres. 35 to 80 lb.

Rates; all meter, 40c. 1000 gal.

CAMP HILL, 896.

MUNICIPAL.

Mayor, W. P. Newell.....Camp Hill
Cons. Engr., Edgar B. Kay.....Tuscaloosa

Contract was let in November, 1914, to construct a waterworks as follows:

Pumps, 1-1,080,000 gal. centrifugal driven by elec. motor, 1-720,000 gal. driven by gas or oil engine, 25-hp.; pumping to elev. tank, 8,000 gal. steel.

Pipe, 2.15 mi. 6 to 8-in. c. i.; hyd. 25; valves, etc.

CANTON, 1,123.

MUNICIPAL.

Mayor, E. A. Matthews.....Canton

CARBON HILL, 1,627.

MUNICIPAL. Carbon Hill Water & Electric Commission.

Comr., A. C. Ramsey.....Carbon Hill
" Henry Suddush..... " "
" Sam Fowler..... " "
Sec., Chas. Kesmodel..... " "
Supt., L. C. Smith..... " "

Wells, 3 8-in. 600-ft. deep; near center business section; no purification.

Boilers, 2 tubular 125-hp. ea. 100 lb. Atlas 1905; hand stoking; pumps, 2-50,000 gal. hor. comp. d. act. Deane 1910, 1-vert. deep well Cook 1910; air compressor, 300 cu. ft. Norwalk 1914 steam driven; pumping to reservoir, 2-135,000 gal. & elev. tanks (1904) 50,000 gal. wood.

Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 75, hose con. 2½-in. Crane; valves, 30 l. h. opening Crane; meters, 25-hp.; av. daily cons. 50,000 gal.; serv. con. 250; ord. pres. 70 to 80 lb., fire pres. same.

Rates: flat, min. charge $1.25 mo.

CLAYTON, 1,130.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, C. F. Patterson.....Clayton

Boilers, one 150-hp. Cole; steam engine, 125-hp. Harrisburg.

COLUMBIA, 1,132.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT. Leased by the Columbia Power Co.

Proprietor, C. B. Townsend, Jr....Columbia
Engr. P'g Sta., F. H..... "

Water-turbine, 247-hp. Leffel.

CORDOVA, 1,747.

MUNICIPAL.

Supt., Scott Maxwell.....Cordova
Des. Engr., Richard Hursk..... "
Engr. P'g Sta., L. C. Spearman.... "
Chemist, C. L. Barton..... "

Black Warrior River; one mi. from center business section; settling basin, 2,000,000 gal., coagulating basin, 10,000 gal., slow sand filter, 30,000 gal.; chemical, hypochlorite of lime.

Pumps, 1-140,000 gal. hor. single d. act. Knowles 1897, 1-720,000 gal. hor. Worth. 1904, 1-860,000 gal. hor. Buffalo 1913; geared to elec. motors, 75 & 100 hp. 500 v. Northern 1904 & 1913; pumping to reservoirs, 2-2,300,000 gal.

Pipe, 3 mi. 6 to 12-in. c. i.; hyd. 24, hose con. 2½-in.; ord. pres. 80 lb. fire pres. 80 to 125 lb.

CULLMAN, 2,130.

MUNICIPAL.

Supt., B. Kiel.....Cullman

Wells, 3 7 & 8-in, 80 to 710 ft. deep; no purification.

Boilers, 2 hor. 300-hp. W. and W.; hand stoking; pumps, 2-720,000 gal. ea. McGowan; pumping direct & to reservoir, 175,000 gal.

Pipe, 3½ mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. Rensselaer; valves, 15 l. h. thd.; meters, 405 National; av. daily cons. 125,000 gal.; serv. con. 450; ord. pres. 60 lb., fire pres. 100 to 110 lb.

Rates: flat, none; meter, min. charge $1.00 mo. 2000 gal., 40c. 1000 gal.

DECATUR, 4,228.

Supply from New Decatur.

DEMOPOLIS, 2,417.

MUNICIPAL.

City Engr., J. B. Whitefield.....Demopolis

DOTHAN, 7,016.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mgr. & Supt., B. E. Bunker.....Dothan
City Clerk, R. W. Lisenby..... "
Engr. P'g Sta., S. K. Faberhard.... "

Boiler, 500-hp. Altman; steam engine, 450-hp. Harrisburg.

ENTERPRISE, 2,322.

MUNICIPAL LIGHT & WATER WORKS.

Supt., Weldon Thompson, ...Enterprise
Engrs. P'g Sta., Copland & Adcock "

Boiler, 150-hp. Cole; steam engine, 80-hp. Harrisburg.

EUFALA, 4,359.

MUNICIPAL WATER, ELECTRIC LIGHT & GAS DEPT.

Chmn. Comrs., J. T. Mainor.....Eufala
Mbr., Dan Mabry..... "
" J. F. Rhodes..... "
City Clerk, T. C. Doughtie..... "
Supt., J. L. Skinner..... "
Engr. P'g. Sta., W. Sawyer..... "

Barbour Creek; 2 mi. from center business section; reservoir, 335,000 gal.; settling basin, 200,000 gal.; coagulating basin, 200,000 gal.; mech. filter, 500,000 gal.

Boilers, 2 tubular 100-hp. ea. 100 lb. W. & W.; pumps, 2-500,000 gal. vert. comp. d. act. Worth.; pumping to standpipe, 350,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 94, hose con. 2½-in. R. D. W.; valves, 140 l. h. opening; meters, 200 Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 535; ord. pres. 55 to 75 lb. fire pres. same.

Rates: flat, $2.25 quarter, bath $2.50 closet $3.75; meter, min. charge 75c. 2000 gal., 25c. 1000 gal. max., 6c. min.

EUTAW, 1,001.

EUTAW WATERWORKS, ELECTRIC & POWER CO.

Pres., W. Stears.....Eutaw
V. Pres., Sec. & Treas., E. B. Barnes.. "
Gen. Mgr., E. B. Barnes, Jr..... "
Asst. Engr. P'g. Sta., W. F. Fall.... "

Boiler, 220-hp. W. & W.; steam engine, 200-hp. Hardie-Tynes.

EVERGREEN, 1,582.

MUNICIPAL.

Supt. & Mgr., H. A. Shields.....Evergreen
Engr. P'g. Sta., J. C. Jones..... "

Well, 6-in., 170 ft. deep, 2500 ft. from center distribution; no purification.

Boilers, 1 tubular 150-hp. Hartley; hand stoking; pumps, 2-400,000 gal. Platt; pumping to reservoir, 50,000 gal. & standpipe (1901) steel.

Pipe, 3¼ mi. 4 to 12-in. c. i.; hyd. 31, hose con. 2½-in. Rensselaer; valves, 16; meters, 159 National; av. daily cons. 50,000 gal.; serv. con. 171; ord. pres. 60 to 70 lb., fire pres. 70 to 125 lb.

Rates: flat, $1.50 mo.; meter, 25c. 1000 gal. max., 15c. min.

FLORENCE, 6,689.

FLORENCE WATER CO.

Pres., N. C. Etting..... Florence
V. Pres., Turner Rice..... "
Supt., Gen. Mgr. & Treas.,
T. A. Howell..... "

Cypress Creek; 3 mi. north of city; no purification.

Boilers, 2 return tubular 150-hp. ea. W. and W.; pumps, 2-4,000,000 gal. Worth.; pumping to tower, 300,000 gal. stone.

Pipe, 22 mi. 4 to 16-in. c. i.; hyd. 122, hose con. 2½-in. R. D. W.; valves, 90 r. h. thd. R. D. W.; meters, 25 mostly National; av. daily cons. 800,000 gal.; serv. con. 1200; ord. pres. 70 lb., fire pres. same.

FORT PAYNE, 1,317.

FORT PAYNE WATERWORKS CO.

Supt., T. B. Sawyer.....Fort Payne

GADSDEN, 10,557.

MUNICIPAL.

Chm. Comrs., P. E. Allison.....Gadsden
Comr., W. P. Johnson..... "
" J. H. Keeling..... "
Supt., R. A. Polglaze..... "

Coosa River; ½ mi. from center dis-

tribution; coagulating basin, 500,000 gal.; slow sand filter, 4,000,000 gal.; chemical, sulphate of alumina.

Boilers, 4 hor. tubular 150-hp. ea. Casey-Hedges; hand stoking; pumps, 2 International, 2-4,000,000 gal. centrifugal; pumping to distributing reservoir, 3,000,000 gal. & direct for fires.

Pipe, 30 mi. 4 to 12-in. c. i; hyd. 180, hose con. 2½-in. Ludlow; meters, 1200 various; av. daily cons. 1000 gal.; serv. con. 1200; ord. pres. 46 to 60 lb., fire pres. 60 to 140 lb.

Rates: all meter, 25c. 100 cu. ft.

GEORGIANA, 599.

MUNICIPAL.

Cons. Engrs., The J. B. McCrary Co.....Atlanta, Ga.

City has let a contract to the above company for the construction of a waterworks consisting of deep well, pumping to an elev. tank, 65,000 gal. steel.

GREENVILLE, 3,377.

MUNICIPAL.

Supt., F. A. Koepcke.....Greenville

Well, 6-in. 680 ft. deep; ¼ mi. from center business section; no purification.

Boilers, one internally fired 55-hp. 100 lb. 1895, one fire tube 75-hp. 100 lb. 1900; pumps, 1-100,000 gal. hor. simple d. act McGowan 1910; air compressor, 200 cu. ft. steam Blake & Knowles 1912; pumping to standpipe (1900) 100,000 gal.

Pipe, 10 mi. 4 to 8-in. cement; hyd. 50, hose con. 3½-in.; valves, 23 l. h. opening Ludlow; meters, 290 Thomson, Pittsburgh, Hersey & National; av. daily cons. 80,000 gal. 55%; serv. con. 375; ord. pres. 70 to 75 lb., fire pres. same.

Rates: flat, 50c. mo.; meter, 70c. mo. 2000 gal.

GREENSBORO, 2,148.

GREENSBORO WATER & LIGHT CO.

Pres., J. A. Blunt.....Greensboro
Sec., J. A. Straiton..... "
Treas., & Engr. P'g Sta., George Findlay..... "
Mgr., R. H. Smith..... "

Boiler, 125-hp. Southern; steam engine, 155-hp.

GUNTERSVILLE, 1,145.

MUNICIPAL.

Mayor, D. Isbell.....Guntersville

HARTFORD, 1,159.

MUNICIPAL WATER & LIGHT PLANT.

Vil. Pres.& Treas., J. R. Alford....Hartford
V. Pres., H. B. Quillin..... "
Sec., A. E. Richards..... "
Mgr., W. R. Anderson..... "
Engr. P'g Sta., F. T. Curckland... "

Boiler, 80-hp. Cole; steam enigne, 120-hp. Harrisburg.

HEADLAND, 1,090.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, R. A. Brannon.....Headland
Clerk, T. H. Jesingan..... "
Treas., M. F. Predgun..... "
Mgr. & Supt., L. D. Glaze..... "

Boiler, 250-hp. Cole & Hartley; steam engine, 85-hp. Valley.

HUNTSVILLE, 7,617.

MUNICIPAL.

Supt., Mr. Phillips.....Huntsville

JACKSONVILLE, 2,231.

JACKSONVILLE CITY WATER WORKS.

Pres., J. A. Gaboury.....Jacksonville

Freestone springs; 3 mi. from center distribution; impounding reservoir, 75,000 gal.; no purification.

Gravity distribution.

Pipe, 9 mi. 2 to 12-in.; hyd. 14 R. D. W.; valves, 16; meters, none; av. daily cons. 50,000 gal.; serv. con. 205; ord. pres. 30 to 40 lb., fire pres. 108 lb.

JASPER, 2,509.

JASPER WATER, LIGHT & POWER CO.

Pres., J. H. Cranford.....Jasper
Sec. & Treas., O. M. Sherer..... "
Supt., A. H. Sparks..... "

Deep wells, 2 6 & 8-in. 220 to 404 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 hor. 250-hp. Erie; hand stoking; pumps, 2-150,000 gal. Buffalo & Brady; 1-belted to elec. motor, 15-hp. 220 v. 3 ph. 60 cys. G. E.; pumping to tank, 20,000 gal., wood.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 34, hose con. 2-in.; meters, 200 Pittsburgh; av. daily cons. 120,000 gal., serv. con. 300; ord. pres. 25 to 40 lb., fire pres. 40 to 110 lb.

Rates; flat, min. $6 per year; meter, 30c. 1000 gal.

LAFAYETTE, 1,632.

MUNICIPAL LIGHT, WATER & ICE PLANT.

Mayor, G. E. Collins.....Lafayette
Treas., J. G. Griffin..... "
Mgr., J. A. Cothran..... "
Engr. P'g Sta., N. F. Hollingsworth..... "

Boiler, 100-hp. Cole; steam engine, 150-hp. Ball.

LANETT, 3,820.

Supply from West Pt., Ga.

MOBILE, 51,521.

MUNICIPAL.

Comr., Harry Pillans.....Mobile
Supt., C. W. Soost..... "

Mountain creeks; 9 & 11 mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 8 150-hp. ea., B. & W., Heine, A. & R.; hand stoking; pumps, 4-6,000,000 gal., 1-4,000,000 gal. Worth. & Holly; pumping to reservoirs, 2-10,000,000 gal. ea.

Pipe, 139.5 mi. 4 to 30-in. c. i.; hyd. 974, hose con. 2½-in Ludlow, R. D. W. & Roe Stephens; valves, 950 r. h. thd.; meters,

3765 Hersey & Worth.; av. daily cons. 10,000,000 gal.; serv. con. 12,974; ord. pres. 81 to 90 lb., fire pres. same.

Rates; flat, 50c. mo.; meter, 15c. 1000 gal. max., 5c. min.

MONTGOMERY, 38,136.

MUNICIPAL.

Comr., E. B. Joseph.....Montgomery
Supt., W. T. Perry..... "
Chemist, B. A. Taylor..... "

Artesian wells, 18 8-in. & 6-in., 250 to 675 ft. deep; no purification.

Boilers, 4 return tubular 125-hp. ea.; hand stoking; pumps, 1-8,000,000 gal. steam Allis C., 2-4,000,000 gal. ea. Allis C. driven by elec. motors, 2-2200 v. d. c.; air compressors, 2 elec. driven 3000 cu. ft. Ingersoll-Rand & Hardie-Tynes; pumping to standpipes, 2 (1884, 1906) 666,000 gal. & reservoirs, 4-1,883,000 gal.

Pipe, 53 mi. 4 to 24-in. c. i.; hyd. 676, hose con. 2½-in. various; valves, l. h. thd. various; meters, 5200 various; av. daily cons. 4,000,000 gal.; serv. con. 8200; ord. pres. 90 to 110 lb., fire pres. same.

Rates; flat, $1.50 quarter; meter, min. charge $3 quarter 20,000 gal.

NEW DECATUR, 6,118.

THE DECATUR WATER SUPPLY COMPANY.

Pres., Eugene Fies..... Birmingham
V. Pres & Gen. Mgr., Jno. B. Weakley..... "
Sec. & Treas., W. C. Hamilton. "
Supt. & Engr. P'g Sta., Edward R. Whitton.....New Decatur
Chemist, E. M. Duncan..... Birmingham

Tennessee River; one mi. from center business section; coagulating basins, 2; mech. filters, 2,500,000 gal. American; chemical, sulphate of alumina.

Boilers, 4 hor. return tubular 90-hp. 125 lb. Robb-Mumford 1909; hand stoking; pumps, 2-2,500,000 gal. ea. hor. comp. d. act. Deane 1888, 1-2,000,000 gal. hor. comp. c. & f. wh. L-D-G, 1-2,000,000 gal. hor. comp. c. & f. wh. L-D-G 1905, 1-2,000,000 gal. hor. comp. c. & f. wh. L-D-G 1907; pumping direct & to standpipe (1888) 287,000 gal.

Pipe, 35 mi. 1 to 24-in. c. & w. i.; hyd. 192, hose con. 2½-in. Chapman; valves, l. h. opening Chapman; meters, 30 National; av. daily cons. 2,000,000 gal.; serv. con. 2639; ord. pres. 50 to 60 lb., fire pres. 90 to 125 lb.

Rates; flat, $4.25 quarter including bath & closet; meter, $2.40 mo. 10,000 gal., 10c. 10,000 gal.

ONEONTA, 609.

MUNICIPAL.

Mayor, J. B. Sloan.....Oneonta

OPELIKA, 4,734.

MUNICIPAL.

Mayor, J. G. Palmer.....Opelika
Supt., Chas. Shaefer..... "
Pur. Agt., H. G. Clift.....Opelika
Treas. & City Clerk, S. S. Black.... "
Engr. P'g. Sta., L. M. Alford..... "

Sukahatchie creek; 2½ mi. from center distribution; settling basin, 15x40; coagulating basin, 40x30x10 ft.; slow sand filter, 720,000 gal.; chemical, sulphate of alumina.

Boilers, 2 tubular 150-hp. ea. Casey-Hedges; hand stoking; pumps, 2-1,440,000 gal. Worth. elec. motor, 337 kw. 2300 v. 3 ph. 60 cys. Ft. Wayne; pumping to distributing reservoir, 8,000,000 gal.; standpipe (1893) iron.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 80, hose con. 2½-in. Ludlow; valves, 50 l. h. thd. Ludlow; meters, 590 National, Hersey & Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 612; ord. pres. 35 to 60 lb., fire pres. 40 to 100 lb.

Rates; flat, $8 year; meter, 25c. 1000 gal. max., 9c. min.

OPP, 863.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Supt., W. A. Douglas.....Opp

Wells.

Boilers, 280 & 150-hp. Hartley; hand stoking; pumps, 2-840,000 gal. McGowan & Herron; pumping to reservoir, 53,000 gal.; standpipe (1906) steel; elevated tank, 50,000 gal.

Pipe, 6 to 8-in. c. i.; hyd. 7, hose con. 2½-in. Herron; valves, 4 r. h. thd. Herron; meters, 30 Pittsburgh & Neptune; av. daily cons. 35,000 gal.; serv. con. 175; ord. pres. 40 to 45 lb., fire pres. 100 to 125 lb.

Rates; flat, 75c. mo.; meter, 40c. 1000 gal.

OXFORD, 1,090.

SUPPLY FROM ANNISTON.

OZARK, 2,229.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.

Mayor, J. A. Eason.....Ozark
City Clerk, J. R. Lucy..... "
Treas., T. B. Martin..... "
Supt. & Engr. P'g Sta., B. C. Dowling. "

Artesian wells, 2 6 & 10-in. 525 & 710 ft. deep; 2,000 ft. from center distribution.

Boilers, 2 return tubular 150-hp. ea.; pumps, 1-720,000 gal. steam Platt, 1-1,440,000 gal., 1-42,000 gal. centrifugal driven by elec. motor; air compressor, 599 cu. ft. driven by elec. motor; elec. generator, 200 kw. driven by steam engine, 300-hp. Corliss; pumping to standpipe (1888) 144,000 gal. iron.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 34, hose con. 2½-in. Kupferle; valves, 20 l. h. thd.; meters, 200 Neptune; av. daily cons. 250,000 gal.; serv. con. 500; ord. pres. 50 lb., fire pres. 90 lb.

Rates; flat, 75c. mo.; meter, 25c. 1,000 gal.

PRATTVILLE, 2,222.
MUNICIPAL.
Mayor, J. C. Burns.....Prattville
Comr., B. H. Gains..... "
" R. L. Duffee..... "
" Anton McCrary..... "
Supt. & Engr. P'g. Sta., W. H. Wilson Prattville
Chemist, Dr. Clarence Rice..... "
Artesian wells, 4 6-in. 190 to 315 ft. deep; ¼ mi. from center distribution; settling basin, 25,000 gal.; no purification.
Pumps, 1-720,000 gal. driven by elec. motor, 250 v.; current from Autauga Oil & Fertilizer Co.; pumping to reservoir 300,000 gal.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. Pratt & Cady; valves, 64 r. h. thd. Crane; meters, 125 Neptune; av. daily cons. 100,000 gal.; serv. con. 212; ord. pres. 80 lb., fire pres. same.

ROANOKE, 2,034.
MUNICIPAL ELECTRIC AND WATER PLANT.
Mayor, W. Y. Cheyning.....Roanoke
Chmn. Comrs., J. S. Hunter..... "
Comr., W. S. Kirk..... "
Supt. & Engr. Pwr. Sta., W. S. Greene Roanoke
Asst. Engr., E. C. Rork..... "
Springs; impounding reservoir, 203,000 gal.; no purification.
Boilers, 2 return tubular Casey-Hedges; hand stoking; pumps, 2-720,000 gal. ea. steam McGowan; 1-360,000 gal. driven elec. motor, 25 kw. 2,300 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1902) 51,000 gal.
Pipe, 6 mi. 4 to 12-in.; hyd. 42, hose con. 2½-in.; valves, 38; meters, 200 Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 238; ord. pres. 80 to 90 lb., fire pres. 120 to 135 lb.
Rates; min. charge 80c. mo., 25c. 1000 gal.

SAMSON, 1,350.
MUNICIPAL LIGHT & WATERWORKS.
City Recorder, W. F. Fanbrough...Samson
Mgr., E. G. Stamps..... "
Supt., Geo. B. Pratt..... "
Engr. P'g Sta., E. C. Nobles..... "
Boiler, 150-hp. Cole, steam engine, 150-hp.

SCOTTSBORO, 1,200.
MUNICIPAL.
Mayor, J. D. Snodgrass.....Scottsboro
Comr., Virgil Boulden..... "
" A. N. Blakemore..... "
" C. Q. Beech..... "
" W. B. Hunt..... "
Town Clerk, W. C. Maples..... "
Impounding reservoir, 200,000 gal. & springs; 3 mi. from center business section.
Gravity distribution from reservoir; pipe, 6 mi. 2 to 8-in. c. & galv. i.; hyd. 13, hose con. 2-in. Columbian; meters, 25 Hersey; av. daily cons. 25, 000 gal. 90%; serv. con. 130; ord. pres. 50 to 90 lb., fire pres. 90 lb.
Rates; flat, $1 mo., bath 25c., closet 25c.; meter, min. charge 75c. mo. 3000 gal., 25c. 1000 gal.

SELMA, 15,649.
MUNICIPAL.
Supt., J. W. Jones.....Selma

SHEFFIELD, 4,865.
THE SHEFFIELD CO. (Consolidation of Sheffield Railway Co., Sheffield Light & Power Co., Sheffield Water Co., and Sheffield Development Co.) Office, 68 Broad St., New York, N. Y.
Pres., Henry Parsons.....New York, N. Y.
Vice Pres., J. W. Worthington.....Sheffield
Sec. & Treas., W. U. Parsons..New York, N.Y.
Gen. Mgr., H. B. Johnson.....Sheffield
Pur. Agt., W. F. Hatch..... "
Ch. Engr., J. O. Coster..... "
Supt. Wtr. Dept., O. F. Swain..... "
Boilers, 1200-hp. Wickes; steam engine, 700-hp. Corliss-Brown; steam turbine, 1250-hp. Parsons-Westg.

SLOCOMB, 896.
MUNICIPAL ELECTIC LIGHT & WATERWORKS.
City, J. B. Jordan.....Slocomb
Supt., J. E. Lee..... "
Engr. P'g Sta., L. C. Davis..... "
Boilers, 125-hp. Cole; steam engine, 100-hp. Valley.

STEVENSON, 574.
MUNICIPAL.
Major, J. K. Shafner.....Stevenson
Town Clerk, E. K. Mann..... "
Supt., G. A. Henegar..... "
Spring; impounding reservoir, 200,000 gal. concrete.
Gravity distribution.
Pipe, 2.5 mi. 1½ to 8-in. c. & galv. i.; hyd. 5, hose con. 2½-in. Columbian; valves, 10; av. daily cons. 40,000 gal.; ord. pres. 60 to 80 lb., fire pres. 85 lb.
Rates; flat, $1.00 to $1.25 mo.

SYLACAUGA, 1,456.
MUNICIPAL WATERWORKS & ELECTRIC LIGHT PLANT.
Pres. Comr., G. B. Johnston.....Sylacauga
Supt., L. D. Coker..... "
Engr. P'g Sta., J. B. Freeman....Rockford
Boiler, 2,200-hp. Schofield; steam engine, 120-hp. Ball; water-turbine, 250-hp. Crump.

TALLADEGA, 5,854.
MUNICIPAL. Talladega Light & Water Commission.
Mgr., D. M. Osbourne.....Talladega

THOMASVILLE, 1,181.
MUNICIPAL.
Mayor, L. N. Traywick.....Thomasville
Bonds sold but plant is not yet consructed. Expect to install pump, 1,480,000 gal.

THORSBY, 436.
THORSBY LIGHT & WATER CO.
Pres., A. H. Ham.....Thorsby

TROY, 4,961.

TROY ELECTRIC LIGHT & WATERWORKS.
Treas., Col. G. J. Hubbard.....Troy
Supt., E. G. Freeman..... "

Boiler, 300-hp. W. & W.; steam engine, 350-hp. Harrisburg.

TUSCALOOSA, 8,407.

MUNICIPAL.
Chm. Comrs., S. H. Sprott, Jr...Tuscaloosa
Cons. Engr., M. Knowles...Pittsburgh, Pa.
Supt., W. Finnell.....Tuscaloosa

Great Warrior River; 3 mi. from center distribution; settling basin, 58 ft. in diam. 287,000 gal.; mechanical filters, 4-2,100,000 gal.; chemical, hypochlorite of lime.

Boilers, 3 hor. return tubular 125-hp. ea. Casey-Hedges; hand stoking; pumps; 1-2,000,000 gal. centrifugal Platt, 1-2,000,000 gal. Worth.; 2-1,500,000 gal. ea. Worth., 1-2,500,000 gal. crank and flywheel; pumping to standpipes.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 140, hose con. 2½-in. R. D. W. & Columbian; valves, 130; meters, 1,500 National; av. daily cons. 1,000 000 gal.; serv. con. 1600; ord. pres. 40 to 50 lb., fire pres. 50 to 80 lb.

Rates; flat, $12 year; meter, min. charge $5 quarter, 18c. 100 cu. ft. max., 5c. min.

TUSCUMBIA, 3,324.

Supplied by the Sheffield Co. See Sheffield.
Local Mgr., Joe Hindman.....Tuscumbia

TUSKEGEE, 2,883.

MUNICIPAL. TUSKEGEE ELECTRIC LIGHT & WATERWORKS.
Mayor, Carl N. Browne.....Tuskegee
Chmn. Comrs., S. B. Edwards.... "
Comr., H. H. Artwright..... "
Clerk, W. C. Hunt..... "
Engr. P'g Sta., T. H. Grimmett.. "

Springs & impounding reservoir, 200,000 gal.; ½ mi. from center business section.

Pumps, 1-200,000 gal. hor. centrifugal G. E. 1913; d. con. to elec. motor, 35-hp. 220 v. 3 ph. 60 cys. G. E. 1913.

UNION SPRINGS, 4,055.

MUNICIPAL LIGHT AND WATERWORKS.
Mayor, W. C. Thompson....Union Springs
Chm. Comrs., W. L. Anderson
Union Springs
Supt., F. J. Thagard..... "

Well, one 8-in. 850 ft. deep; 200 ft. from center distribution.

Boilers, 3 return tubular 250-hp. W. & W.; hand stoking; pumps, 2 steam Platt; air compressors, 2 Ingersoll-Rand; pumping to tank, 100,000 gal. steel.

Pipe, 8 mi. 4 to 12-in.; hyd. 50, hose con. 2½-in. Rensselaer; meters, 150 various; av. daily cons. 150,000 gal.; serv. con. 300; ord. pres. 60 to 65 lb., fire pres 100 to 120 lb.

Rates; meter, min. charge $1.00 mo. 400 cu. ft., 20c. 100 cu. ft.

UNIONTOWN, 1,836.

MUNICIPAL LIGHT & WATERWORKS.
Mayor, B. C. Coleman.....Uniontown
Engr. P'g. Sta., B. C. Collier ... "
Supt., Geo. B. Foss..... "

Boiler, 200-hp. Union; steam engine, 305-hp. Hardie-Tyne.

WEST BLOCTON, 892.

MUNICIPAL.
Mayor, W. H. Wright.....West Blocton

WETUMPKA, 1,103.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Mayor, F. W. Lell.....Wetumpka
Treas., E. L. Gaddie, Jr..... "
Supt., W. B. Robinson..... "
City Engr., J. W. Norton..... "

Boiler, 250-hp. Hartley; steam engine, 100-hp. Allis-C.

WOODLAWN.

Supplied by Birmingham Waterworks Company. See Birmingham.

ALASKA

DOUGLAS, 1,722.

DOUGLAS WATERWORKS. (Privately owned.)

Supt., A. Murray.....Douglas

Lawson & Baer Creeks; ½ mi. from center of distribution.

Gravity distribution from reservoirs, 2-150,000 gal.; pipe, 1 mi. 2 to 8-in.; hyd. 10, hose con. 3-in.; valves, 9 r. h. opening; av. daily cons. 250,000 gal.; serv. con. 175; ord. pres. 25 to 70 lb., fire pres. same.

Rates; flat, 25c. mo.

JUNEAU, 1,644.

JUNEAU WATER CO.

Supt., Marshall Ziegler.....Juneau

KETCHIKAN, 1,613.

CITIZENS LIGHT, POWER & WATER COMPANY.

Pres. & Mgr., J. C. Barber ..... Ketchikan
V. Pres., H. C. Strong..... "
Sec., Charles Deppe..... "
Treas., Charles S. Willis... Seattle, Wash.

NOME, 2,600.

MONLIGHT WATER CO.

Supt., A. J. Bakke.....Nome

SITKA, 1,039.

SITKA WATER AND LIGHT CO.

Pres. & Supt, W. P. Mills.....Sitka
Sec., L. M. Mills..... "

Mountain spring; one mi. from center distribution; impounding reservoir, 30,000 gal.; tank, 30,000 gal.

Gravity distribution.

Pipe, one mi. 4 to 12-in.; hyd. 13, hose con. 2½-in.; valves, 11; meters, none; av. daily cons. 30,000 gal.; serv. con. 85; ord. pres. 75 lb., fire pres. same.

SKAGWAY, 872.

SKAGWAY WATERWORKS.

Supt., Frank Page.....Skagway

Water suplied by Home Power Co. of Skagway, Charles Nye, Mgr.

VALDEZ, 810.

ALASKA WATER, LIGHT AND TELEPHONE CO.

Mgr., T. G. Quinn.....Valdez

Private wells. Pumping for fire purposes only.

ARIZONA

BENSON, 1,025.

BENSON WATER CO.

Pres., John Mets.....Tucson
Sec. & Gen. Mgr., Frank S. Treat...Benson

Artesian wells, 3 4-in. 750 to 900-ft. deep; near center distribution; no purification.

Pumps, 2-288,000 gal. ea. hor. centrifugal 1907 geared to gasoline engines, 2 7½-hp. ea. Woodpecker 1907 & one 14-hp. St. Mary's 1907; pumping direct & to elev. tanks, 4 (1907) 18,000 gal. ea. iron.

Pipe, 2 mi. 2 & 4-in. w. i.; hyd. 20, hose con. 2-in. Crane; meters, 10 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 50 to 80 lb.

Rates; flat, min. $2 mo.

ADAMS WATER CO. Supplies part of Benson. No report.

BISBEE, 9,019.

MUNICIPAL.

Supt., A. E. Sheppard.....Bisbee
City Clerk, M. L. Butler..... "

For fire protection only.

Bisbee-Naco Water Company. Office, 25 Naco Ave. For officers and works see Naco.

CHANDLER, 600.

CHANDLER IMPROVEMENT CO.

Pres., A. J. Chandler.....Chandler
Supt., W. P. Fuller..... "
Des. Engr., C. J. Berg..... "

Wells; near center distribution.

Pumps, one; purchase energy from South Side Gas & Elec. Co., of Mesa, Ariz.; pumping to elev. tank, 10,000 gal. iron.

Hyd. 46, hose con. 2½-in.; av. daily cons. 200,000 gal.; serv. con. 100; ord. pres. 40 lb., fire pres. 60 lb.

Rates; $1.50 & $2; meter, 20c. 1,000 gal.

CLARKDALE, 900.

UPPER VERDE PUBLIC UTILITIES COMPANY.

For officers, see Jerome.

Spring; 2½ mi. from center distribution; no purification.

Gravity distribution from impounding reservoir, 500,000 gal. concrete.

Pipe, 3 mi. w. i.; hyd. 48, hose con. 2½-in. Ludlow; valves, r. h. thd. Crane; meters, 2 Thomson; av. daily cons. 10,000 gal.; serv. con. 125; ord. pres. 40 to 200 lb., fire pres. 40 to 300 lb.

Rates; flat, $2 mo.; meter, $1.00 1000 gal. max., 20c. min.

DOUGLAS, 6,437.

MUNICIPAL.

Mayor, C. O. Ellis.....Douglas
Supt., S. P. Thompson..... "
Cashier, P. Ahern..... "
Engr. P'g. Sta., L. E. King..... "

Wells, 2 10-in. 290 & 460 ft. deep 2½ mi. from center distribution; no purification.

Pumps, 2-160,000 gal. Deane; d. con. to oil engines, 2 250-hp. DeLaVergne; pumping direct, surplus to tank (1902) iron.

Pipe, 58 mi. 2 to 14-in. c. & w. i.; hyd. 62, hose con. 2½-in. Rensselaer & Kupferle; valves, 500 r. h. thd. Ludlow & Crane; meters, 2300 Neptune & National; av. daily cons. 750,000 gal.; serv. con. 2300; ord. pres. 40 to 65 lb., fire pres. same.

FLAGSTAFF, 1,633.

MUNICIPAL.

Supt., John Marshall.....Flagstaff

Two large springs in crater of San Francisco Mountains; 19 mi. from center business section; reservoirs, 1-3,500,000 gal. & 1-50,000,000 gal. which has just been developed by Santa Fe railroad. The large reservoir is to become the property of Flagstaff & the Santa Fe Railroad is supplied from it.

GLENDALE, 500.

GLENDALE WATER WORKS.

Owner & Supt., F. H. Sine.....Glendale

Wells, 2; in center of town.

Pumps, 2-100,000 gal. Luitweiler; chain drive from elec. motors, 2-110 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 20,000 gal. & elevated tank, 20,000 gal., iron.

Pipe, 6 mi. 4 to 12-in.; hyd. 5, hose con. 2½-in.; meters, 18 Neptune; av. daily cons. 40,000 gal.; serv. con. 200; ord. pres. 30 lb.; fire pres. same.

Rates; flat, $2 mo.; meter, 25c 1000 gal.

GLOBE, 7,083.

MUNICIPAL.

Comr., T. G. Loyd.....Globe
" J. H. Faught..... "
" Daniel Tracy..... "
Supt., George Cook..... "

Wells, 3 6-in. & 12-in. 70 to 248 feet deep; one mi. from center distribution; no purification.

Pumps, 4-720,000 gal. Deane & Luitweiler, belt driven by gasoline engines, 3-30, 60 & 90-hp. Foos; pumping to reservoir.

Pipe, 35 mi. 4 to 12-in. w. i.; hyd. 52, hose con. 2½-in. Chapman; valves, 200 r. h. thd. Crane and Chapman; meters, 1200 Neptune; av. daily cons. 350,000 gal. serv. con. 1750; ord. pres. 15 to 130 lb., fire pres. same.

Rates: flat, $2.50 mo.; meter, min. charge $2 mo. 2700 gal.

JEROME, 2,393.

UPPER VERDE PUBLIC UTILITIES. Supplies Clarkdale,

Pres., W. L. Clark.....Jerome
Mgr., R. C. Lane.....Clarkdale
Supt. & Ch. Engr., T. C. Roberts...Jerome
Pur. Agt., Dave Hopkins..... "

Mountain springs; one to 7 mi. from center distribution; no purification.

Gravity distribution from tanks, 6-121,640 gal. wood.

Pipe, ½ mi. mostly 4-in. w. i.; hyd.,

hose con. 2½-in. various valves, r. h. thd. Crane; meters, 30 Thomson; av. daily cons. 200,000 gal.; serv. con. 470; ord. pres. 10 to 200 lb., fire pres. 50 to 300 lb.

Rates: flat, $2 mo.; meter, $1.00 1000 ga . max., 20c. min.

KINGMAN, 900.

DESERT WATER AND POWER CO.
Pres., F. A. Wilde, Sr.....Milwaukee, Wis.
V. Pres., J. H. Davidson....Oshkosh, Wis.
Asst. to Pres., R. W. Wilde.....Kingman
Sec., W. A. Richardson.San Francisco, Cal.
Treas. & Mgr., F. A. Wilde, Jr....Kingman
Engr. P'g. Sta., Joe Steere..... "

Individual wells, about 25-150 to 300 ft. deep. Pumping mostly by elec. motors to overhead tanks; power furnished by above company.

LOWELL, 2,500.

Supplied by Bisbee-Naco Water Company. See Naco.

METCALF, 200.

Supplied by The Morenci Water Company. See Morenci.

MORENCI, 5,010.

THE MORENCI WATER COMPANY. Supplies Metcalf, Ariz.
Pres., L. D. Ricketts,
42 Broadway, New York, N. Y.
V. Pres., M. H. McLean.....Morenci
Treas., H. I. Van Gorder..... "
Supt. & Pur. Agt., W. L.
Du Moulin..... "

Eagle River & a series of shafts and infiltration tunnels; 5 mi. from center business section; settling basins, 3-11,000 sq. ft.; chemicals, none.

Boilers, 4 water-tube 160-hp. ea. 160 lb. B. & W. 1910; petroleum fuel; pumps, 2-3,000,000 gal. hor. tri. exp. c. & f. wh. Nordberg 1909, 1-1,500,000 gal. hor. c. & f. wh. Nordberg 1912; pumping to elev. tanks. 2-1,000,000 gal.

Pipe, 25 mi. 6 to 10-in.; av. daily cons. 2,750,000 gal. 95.3%; ord. pres. 110 lb., fire pres. same.

NACO, 250.

BISBEE-NACO WATER COMPANY. Office, 25 Naco Ave., Bisbee. Supplies Bisbee, Lowell & Warren.
Pres., W. C. Read.....Bisbee
V. Pres., M. J. Brophy..... "
Sec. & Treas., M. J. Cunningham... "
Gen. Mgr. & Pur. Agt., W. H. Fitzgerald..... "
Engr. P'g Sta., J. F. Pound..... Naco

Wells, one 5x7 ft. 186 ft. deep; one 4 ft. 6-in. in diam. 153 ft. deep; reservoir, 3,000,000 gal.

Boilers, 2 return tubular 150-hp. ea. 150 lb. Kewanee 1905; oil fuel; pumps, 1-1,000,000 gal. hor. tri. exp. d. actg. Worth. 1901, -500,000 gal. hor. tri. exp. d. actg. Prescott 1904, 3-360,000 gal. ea. vert. quintuplex Aldrich 1908 d. con. elec. motors, 1-1,400,000 gal. vert. triplex Rumsey 1908 d. con. to elec. motor; 1-650,000 gal. vert. triplex Aldrich 1913 d. con. to elec. motor; elec. motors, 2 60-hp. ea., 3 110-hp. ea., one 10-hp. all 250 v. d. c. G. E. 1909, one 30-hp. 250 v. G. E. 1913; oil engines, one 225-hp. Busch Sulzer 1908, one 225-hp. Busch Sulzer 1914, one 75-hp. Deisel 1907; pumping to elev. tanks, 1,500,000 gal.

Pipe, 45 mi. 3 to 10-in. c. i.; meters, 2,100 Neptune & National; av. daily cons. 300,000 gal. 72%.

NOGALES, 3,514.

NOGALES ELECTRIC LIGHT, ICE & WATER CO. Supplies Nogales, Mex.
Pres., I. N. Mix.....Nogales
Sec., Treas & Mgr., E. Titcomb ... "
Pur. Agts. & Treas., Roy & Titcomb, Inc..... "
Engr. P'g Sta., W. V. Thornton "

Boiler, 330-hp. Heine; steam engine, 275-hp.

PHOENIX, 11,124.

MUNICIPAL.
Mayor, George A Young.....Phoenix
Comr., Frank Woods..... "
" M. J. Foley..... "
" P. Carpstein..... "
City Mgr., W. A. Farish..... "
Supt., V. A. Thompson..... "
Engr. P'g Sta., J. F. Reynolds..... "
Chemist, Dr. Godfrey..... "

Wells, 7 12 & 16-in. 125 to 420-ft. deep; one mi. from center business section; no purification.

Boilers, 3 water-tube 150-hp. 190 lb. B. & W. 1904; oil fuel; pumps, 1-3,000,000 gal. hor. comp. c. & f. wh. Prescott 1909, 1-5,000,000 gal. hor. comp. c. & f. wh. Nordberg 1910, 2-1,000,000 gal. ea. hor. comp. d. act. Deane 1886; pumping to standpipe (1888) 115,000 gal. steel, Baker Iron Works.

Pipe, 85 mi. 4 to 16-in. c. i.; hyd. 225, hose con. 2½-in. Ludlow, R. D. W. & Columbian; valves, 700 r. & l. h. opening various; meters, 500 Nationals; av. daily cons. 3,900,000 gal.; serv. con .4,800; ord. pres. 35 to 43 lb., fire pres. 70 to 85 lb.

Rates, flat, $1 mo., bath 25c., closer 50c.; meter, min. charge $2 mo. 15,000 gal., 12½c. 1,000 gal.

PIMA, 500.

CITY WATER WORKS.
Prop., Phil C. Merrill.....Pima

Wells, one 8x10 ft. 30 ft. deep; one mi. from center distribution; no purification.

Pump, one Rumsey; gasoline engines, 2 16-hp. Witte; pumping to tank, 20,000 gal. concrete.

Pipe, 3-in. wood & iron; hyd. none; meters, 65 Buffalo; av. daily cons. 19,000 gal.; serv. con. 97; ord. pres. 63 lb.

Rates: flat, $3 mo.

PRESCOTT, 5,092.
MUNICIPAL.
Supt., John Robinson.....Prescott
Springs; pump, 1-10x12-in. Goulds.

THATCHER, 904.
THATCHER WATER CO.
Pres., S. J. Sims.....Thatcher
V. Pres., Gen. Mgr. & Pur. Agt.,
S. Geo. Sims..... "
Sec., C. O. Larson..... "
Treas., R. W. Fuller..... "
Wells, 5 open 6-ft. sq. 36-ft. deep; 4.5 mi. from center business section; reservoirs, 2-40,000 gal.; no purification.
Pumps, Syphon primed by small pumps & gasoline engines, 6-hp. Neway 1912.
Pipe, 18 mi. 2 to 18-in. wood & galv. i.; hyd. 10, hose con. 2½-in.; valves, 100 r. h. opening; meters, 200; av. daily cons. 9,000 gal.; serv. con. 200; ord. pres. 36 to 76 lb., fire pres. same.
Rates; meter, min. charge $2.50 mo. 1,000 gal.

TOMBSTONE, 1,582.
HUACHUCA WATER CO.
Pres., A. E. Davis.....Tombstone
V. Pres., E. D. Davis..... "
Supt. & Sec., A. H. Gardner.... "
Springs, 23 in Huachuca mountains; 28 mi. from center distribution; no purification.
Gravity distribution from reservoir, 1,000,000 gal.
Hyd. 30, hose con. 2½-in.; meters, 225 Thomson, National & Pittsburgh; serv. con. 250; ord. pres. 140 lb.; fire pres. same.
Rates: flat $1.50 to $3 mo.; meter, $1.00 1000 gal. max., 50c. min.

TUCSON, 13,193.
MUNICIPAL.
Supt., J. M. Ruthrauff.....Tucson
Artesian wells; 4.5 mi. from center business section; reservoir, 1,500,000 gal. concrete.

WARREN, 175.
Supplied by Bisbee-Naco Water Company. See Naco.

WILLIAMS, 1,267.
WILLIAMS WATER & ELECTRIC CO.
Office, 911 Trust & Savings Bldg., Los Angeles, Calif.
Pres., G. W. E. Griffith.....Los Angeles
V. Pres., B. R. Ells..... " "
Sec., Treas. & Supt.,
Luther Stover.....Williams
Springs & reservoirs, 2-50,000,000 gal.; 1.25 mi. from center business section; no purification.
Pump, 1-100,000 gal. hor. centrifugal F. M. 1912 geared to elec. motors; gravity distribution.
Pipe, 15 mi. ¾ to 6-in. c. i.; hyd. 28, hose con. 2½-in. Kupferle; valves, 12 l. h. opening Crane; meters, 50 Worth., av. daily cons. 25,000 gal.; serv. con. 190; ord. pres. 100 lb., fire pres. same.
Rates; flat, $2 mo., bath 50c., closet 50c.; meter, min. charge $1.50 mo. 600 gal., closet $2.25 1,000 gal. max., $1 min.

WINKLEMAN, 484.
MINOR & GRASTY. (Formerly Winkelman Water Co.).
Pres., E. C. Grasty.....Winkleman
Gen. Mgr., Supt. & Pur. Agt.,
H. H. Minor..... "
Engr. P'g Sta., L. S. Craig..... "
Wells, 2 6-ft. in diam. 24-ft. deep; 2½ mi. from center cusiness section.
Pumps, 1-5x6 vert. triplex Dodge 1913 belted to elec. motor, 5-hp. 220 v. s. ph. 60 cys. Century 1913, 1-6-in. single belted to gas engine; elec. energy from Ray Consolidated Copper Co.; pumping to elev. tanks, 3 (1911) 30,000 gal. iron.
Pipe, 6 mi. 3-in. w. i.; hyd. 6, hose con. 2-in.; meters, 60 Buffalo & Neptune; av. daily cons. 12,000 gal. 35%; serv. con. 118; ord. pres. 20 to 130 lb., fire pres. 45 to 130 lb.
Rates; flat, $2.50 mo.; meter, min. charge $1 mo. 500 gal., $1 1,000 gal. max., 50c. min.

WINSLOW, 2,381.
THE ATCHISON, TOPEKA AND SANTA FE RAILWAY CO.
Hyd. Engr., G C. Millet
Supt., V. C. Proctor.....Winslow
Des. Engr., E. E. Ball..... "
Ch. Engr. P'g. Sta., H. Johnson... "
Chemist, J. R. Whiteside..... "
Clear Creek; 6½ mi. from center distribution; impounding reservoir, 100,000,000 gal.; no purification.
Boilers, 4 tubular 150-hp. ea.; hand stoking; pumps, 3-1,200,000 gal.; pumping direct & to elevated tanks, 3-1,00,000 gal.
Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 3-in.; valves, 75 l. h. thd. Clow; meters, 20; av. daily cons. 700,000 gal.; serv. con. 700; ord. pres. 35 lb., fire pres. 95 to 175 lb.
Rates: flat, $3 mo.

YUMA, 2,914.
YUMA ELECTRIC AND WATER CO.
Supt., Samuel de Corse.....Yuma
Colorado River; settling basins, 3-1,-500,000 gal.; slow sand filters, 300,000 gal.; chemicals, none.
Boilers, 4 tubular 600-hp. Sterling; pumps, three, 2 Deane, & 1 Allis C.; oil engine, one Lyon Diesel drives elec. genertor and centrifugals; pumping to 2 elevated tanks.
Pipe, 13 mi. 4 to 30-in. c. i. & wood; hyd. 54, hose con. 2½-in. Chapman, Crane & Pittsburgh; valves, r. & l. h. thd.; meters, 400 Neptune; av. daily cons. 2,500,000 gal.; serv. con. 700; ord. pres. 40 to 60 lb., fire pres. 125 lb.

ARKANSAS

ARGENTA, 11,138.

ARKANSAW WATER COMPANY. Controlled by the American Water Works and Electric Company, Incorporated, 50 Broad St., New York, N Y. Supplies Pulaski Heights.

Supt. G. M. Gadsby.....Argenta
Ch. Engr., G. W. Biggs..New York, N. Y.

Wells, 8 6-in and 8-in., 65 to 75 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 2 water-tube 200-hp. Keeler; fuel, gas; pumps, 3-3,500,000 gal. Worth. & F. M.; pumping direct & to reservoir, 510,000 gal.

Pipe, 14¾ mi. 4 to 12-in. c. i.; hyd. 74, hose con. 2½ & 3-in. Ludlow; valves. r. h. thd.; meters, 1200 Hersey, Worth. & Neptune; av. daily cons. 400,000 gal.; serv. con. 1300; ord. pres. 50 lb., fire pres. 100 to 115 lb.

Rates: flat, $6 year, bath $4, closet $4; meter, min. charge 90c. mo., 30c. 1000 gal. max., 20c. min.

ARKADELPHIA, 2,745.

ARKANSAS POWER CO.

Pres., H. C. Couch.....Arkadelphia
Des. Engr. & Sec., J. L. Longino "
Supt., W. C. Maguire:..... "

Ouachita River; 3500 ft. from center distribution.

Boiler, one 70-hp.; pumps, 2-2,160,000 gal. Worth.

Serv. con. 350; ord. pres. 30 lb.

Rates: meter, 30c. 1000 gal.

ARKANSAS CITY, 1,485.

OWNED BY R. W. SMITH.

Gen. Mgr., R. W. Smith....Arkansas City

Wells; pumping direct & to elev. tank, 45,000 gal.; hyd. 22, hose con. 2½-in.; valves, 5 r. h. opening; meters, 5; av. daily cons. 80,000 gal. 50%; serv. con. 160; ord. pres. 20 to 46 lb., fire pres. same.

Rates; flat, $1 mo., bath $1, closet $1.50. meter, 30c. 1000 gal. max., 15c. min.

AUGUSTA, 1,520.

ARKANSAS PUBLIC SERVICE CO.

Pres., G. S. Bratton.....Augusta
Mgr., O. S. Bratton..... "
Engr. P'g Sta., P. Dale..... "

Boiler, 250-hp. Shea; steam engines, 120-hp. A. S. H. Ideal.

BATESVILLE, 3,399.

MUNICIPAL ELECTRIC LIGHT AND WATER PLANT.

Chm. Comrs., Ernest Neill..... Batesville
Comr., Prof. Frierson..... "
Sec., Wm. Ramsey..... "
Collector, R. R. Weaver..... "
Supt., W. H. Walkup..... "

Mountain stream, 4000 ft. from center distribution; no purification.

Boiler, one 400-hp. W. & W.; pumps, 2-1,500,000 gal., one steam Worth., one power triplex Goulds belt driven from steam engine, 355-hp. Nagle; pumping direct & to standpipe (1898) iron.

Pipe, 6½ mi. 4 to 12-in. c. i.; hyd. 45, hose. con. 2½-in. Rensselaer; valves, 25 various; av. daily cons. 150,000 gal.; serv. con. 460; ord. pres. 85 to 100 lb., fire pres. same.

Rates: flat, none; meter, 30c. 1000 gal. max., 15c. min.

BENTON, 1,708.

MUNICIPAL.

City Engr., B. F. Henry.....Benton

It is reported that plans by the J. B. McCrary Co., of Atlanta, Ga., have been adopted by the city council.

BENTONVILLE, 1,956.

MUNICIPAL.

Supt., George A. Johnson.....Bentonville

Springs; 4 mi. from center distribution.

Boilers, two; pumps, 2-1,000,000 gal. Worth.; pumping to tower, 60,000 gal.

Hyd.. 48, hose con. 3-in. Rensselaer valves, 20; meters, 50 Neptune & Pittsburgh; av. daily cons. 180,000 gal.; serv. con. 600; ord. pres. 45 to 60 lb.

Rates; flat, $1.50 quarter, bath $1.50, closet 50c.; meter, 25c. 1000 gal.

BLYTHEVILLE, 3,849.

BLYTHEVILLE WATER CO.

Receiver & Des. Engr.,
F. G. Proutt.....Blytheville
Engr. P'g. Sta., W. W. Hollipeter "
Engr. P'g. Sta., Mr. Jontz..... "

Artesian well, 6-in. 1500 ft. deep; ½ mi. from center distribution; no purification.

Steam is purchased from Hollipeter and Jontz Electric Light Plant; pumps, 2-1,728,000 & 1,080,000 gal. comp. duplex Worth.; pumping direct & to elev. tank (1912) 100,000 gal. steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 83, hose con. 2½-in. Columbian; valves, about 40 r. h. thd. Columbian; meters, 275 Worth.; av. daily cons. 200,000 gal.; serv. con. 275; ord. pres. 35 to 45 lb., fire pres. 90 lb.

Rates: all meter, min. charge 75c. mo. 2500 gal., 25c. 1000 gal. max., 15c. min.

BRINKLEY, 5,133.

BRINKLEY WATER & LIGHT CO.

Pres., J. E. Thompson,
241 4th Ave.....Nashville, Tenn.
V. Pres., Elmo Chanery.....Brinkley
Treas., J. S. Mitchell..... "
Sec., J. W. Neff..... "
Engr. P'g Sta.,
Richard O. Rear..... "

Artesian wells, 2 6 & 10-in. 150 to 650-ft. deep; near center business section; reservoir, 100,000 gal.; no purification.

Boilers, 2 150-hp. 125 lb. W. & W. 1913 & 1914; hand stoking; pumps, 2-720,000 gal. ea. hor. duplex d. act. Worth. 1905 & 1914

pumping to elev. tank (1905) 100,000 gal. steel.

Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 43, hose con. 2½-in. Kupferle & Ludlow; valves, 18 r. h. opening Nelson; meters, 100 Worth.; av. daily cons. 150,000 gal. 70%; serv. con. 160; ord. pres. 43 lb. fire pres. 100 lb.

Rates; flat, $1 mo., bath 50c., closet 50c.; meter, min. charge 90c. mo. 2,200 gal., 40c. 1000 gal. max., 20c. min.

CAMDEN, 3,995.

ARKANSAS POWER CO.

Pres. H. C. Couch.....Camden
V. Pres., J. H. Muk..... "
Sec., J. L. Longino..... "
Treas., J. W. Lee..... "
Mgr., E. T. Reynolds..... "

Wells, 3 8-in. 176 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 3 400-hp. Brownell; hand stoking; pumps, 2-440,000 gal. turbine Worth., one centrifugal Gregg d. con. to elec. motors, 62 kw. 440 v. 3 ph. 60 cys. G. E. & Westg.; pumping to standpipe (1899) steel & to reservoir, 16x75 ft. 105,000 gal.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 49, hose con. 2½-in. Kupferle; valves, 31 r. h. thd. Crane; meters, 14 Neptune; av. daily cons. 350,000 gal.; serv. con. 493; ord. pres. 50 to 65 lb., fire pres. 50 to 78 lb.

CLARKVILLE, 1,456.

MUNICIPAL.

Pres. Comrs., T. E. May.....Clarkville
Comr., A. W. Ragon..... "
Sec., D. W. Dunlap..... "
Cons. Engrs., Winters & Dove
Fort Smith, Ark.
Supt., C. C. Allbritten.....Clarkville

Well and creek; ¾ mi. from center distribution; no purification.

Boilers, 2 return tubular 125-hp. ea. Atlas; hand stoking; pumps, 360,000 gal. power triplex Goulds driven from elec. motor, 25-hp. 2200 v. 3 ph. 60 cys. G. E.; pumping to elev. tank (1914) 100 ft. high, 55,000 gal., steel.

Pipe, 8 mi. 4-in. to 8-in. c. i.; hyd. 39, hose con. 2½-in. Columbian; valves, 60 r. h. thd. Crane; meters, 102 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 102; ord. pres. 65 to 68 lb., fire pres. same.

Rates: flat, none; meter, min. charge $1 mo. 2500 gal., min. 10c. 1000 gal.

CONWAY, 2,794.

MUNICIPAL.

Supt., E. E. Leverett.....Conway

CROSSETT, 2,038.

CROSSETT LUMBER CO.

Supt., W. H. Thornton.....Crossett

Wells, 6 8-in. 150 ft. deep.

Boiler, one tubular 150-hp. Casey-Hedges; hand stoking; pumps, 2-2,160,000 gal. ea. Worth.; pumping direct; reservoir, 300,000 gal. concrete; elevated tank, 100 ft. high 60,000 gal., iron.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 2½-in. Goodrich; valves, 18 r. h. thd. Crane; av. daily cons. 9,000,000 gal.; ord. pres. 50 to 75 lb., fire pres. 100 to 150 lb.

DARDANELLE, 1,757.

MUNICIPAL.

Supt., H. D. Evans.....Dardanelle

Well, 68 ft. deep.

Boilers, one tubular 15-hp. Atlas; pump, one 75,000 gal. Cook; pumping direct and to reservoir, 24x48 ft. 150,000 gal.; standpipe (1900) 24 ft. in diam., 48 ft. high, iron.

Av. daily con. 7500 gal.; serv. con. 389; ord. pres. 110 lb., fire pres. same.

DE QUEEN, 2,018.

MUNICIPAL.

Pres. Comrs., J. L. Tobin.....De Queen
Comr., G. H. Dale..... "
Sec., L. D. McCown..... "
Supt., L. G. Ferrel..... "

Artesian wells, 2 8-in. 250 and 275 ft., ½ mi. from center distribution; settling basin, 30 ft. in diam., 10 ft. deep, 53,000 gal., no purification.

Boilers, 3 150-hp.; hand stoking; pumps, 1-720,000 Blake; pumping to elevated tank, 120 ft. high, 50,000 gal., steel.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 21, hose con. 3-in. Ludlow; valves, 24 l. h. thd.; meters, 75 Neptune; av. daily cons. 30,000 gal.; serv. con. 250; ord. pres. 50 to 65 lb., fire pres. 69 to 150 lb.

Rates: flat, $9 year; meter, min. charge 50c. mo., 40c. 1000 gal. max., 25c. min.

DERMOTT, 1,662.

MUNICIPAL.

Supt., W. B. Alexander.....Dermott

ELAINE, *400.

KELLEY AND ALLEN.

Supt., E. M. Allen.....Helena
Des. Engr., S. S. Stoaks.....Elaine
Ch. Engr. P'g. Sta., C. F. Baker..... "

Artesian well, 3-in. 1508 ft. deep, in central part of town; no purification.

Pump, one power driven by gasoline engine, 5-hp. F. M.; pumping to elev. tank, 50,000 gal., steel.

Pipe, 3-in. c. i.; av. daily cons. 5000 gal.; serv. con. about 75; ord. pres. 280 lb., fire pres. same.

Rates: flat, $1 mo. bath $1

EL DORADO, 4,202.

EL DORADO LIGHT & WATER CO. (Controls Fordyce Light & Water Co.).

Pres., J. P. Holmes.....El Dorado
V. Pres. & Mgr., W. H. Holmes.. " "
Sec. & Treas., S. R. Morgan.... " "
Engr. P'g Sta., Frank Goodwin.. " "

Boiler, 250-hp. Atlas; steam engine, 175-hp. Atlas.

ENGLAND, 1,407.

ENGLAND ICE AND GIN CO.

Pres., G. W. Morris.....England

Sec. & Treas., J. K. Brodie.....England
Supt., W. H. Fox..... "

Wells, 2-800 ft. deep; settling basin, 75,000 gal.; chemicals, none.

Boiler, one 150-hp.; hand stoking; pumps, 2 F. M.; elev. tank 2000 gal., wood.

Pipe, 1½ mi. 4 to 12-in. c. i.; hyd. 21 hose con. 2-in.; av. daily cons. 50,000 gal.; serv. con. 100; ord. pres. 35 lb., fire pres. 100 lb.

Rates: flat, $1 mo.; meter, 40c. 1000 gal.

EUREKA SPRINGS, 3,228.

MUNICIPAL.

City Engr., W. H. Elliott....Eureka Springs

FAYETTEVILLE, 4,471.

MUNICIPAL.

Chm. Comrs., B. F. Campbell..Fayetteville
Cons. Engr., W. N. Gladson... "
Supt., H. Sour..... "

White River and springs; White River 2½ & Clear Creek Springs 4½ mi. from center distribution; impounding reservoir, 550,000 gal.

Boilers, one tubular 150-hp. O'Brien; pumps, 2-2,000,000 gal. Worth. driven by elec. motors, 125-hp. 2300 v. 3 ph. 60 cys. G. E.; pumping to reservoir, above.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 67, hose con. 2½-in. Nelson, Dimmick & Rensselaer; valves, 60 r. h. thd. various; meters, 675 Standard, Worthington, Pittsburgh & Thomson; av. daily cons. 460,000 gal.; serv. con. 1100; ord. pres. 50 to 110 lb., fire pres. same.

FORDYCE, 2,794.

FORDYCE LIGHT & WATER CO. (Controlled by El Dorado Light & Water Co., El Dorado.)

Pres., S. R. Morgan.....El Dorado
V. Pres., Treas. & Gen. Mgr., M. B. Morgan..... " "
Sec., J. D. Totum..... " "
Supt., M. L. Rhodes..... " "

Boiler, 180-hp. Brownell; steam engine 225-hp.

FORREST CITY, 2,484.

MUNICIPAL WATER & LIGHT PLANT.

Cashier, W. P. Gorman.....Forrest City
Mgr. & Ch. Engr., A. D. Chilner " "

Boilers, Shea; steam engine, 250-hp. Southern.

FORT SMITH, 23,975.

MUNICIPAL.

Supt., W. H. Bruce.....Fort Smith
Ch. Engr. P'g. Sta., D. W. Golden Fort Smith

Poteau River; 2 mi. from center distribution; impounding reservoir, 10,000,000 gal.; coagulating basin, 5,000,000 gal.; mechanical filters, 4-3,500,000 gal.; chemicals, sulphate of alumina & hypochlorite of lime.

Boilers, 3 tubular 250-hp. Brownell; hand stoking; pumps, 2-5,000,000 gal, centrifugal Platt, 1-6,000,000 gal. triple exp. Worth., 1-6,500,000 gal. triple exp. Prescott, 2-6,000,000 gal. centrifugals Terry & Liddell driven by elec. motor, 2-115 & 14 amp. ea. G. E.; pumping to reservoir, 9,000,000 gal. & standpipe (1882) steel.

Pipe, 55 mi. c. i.; hyd. 336, hose con. 2½-in. 121 Chapman, 129 Rensselaer, 86 Columbian; valves, 381 r. and l. h. thd. Chapman & Rensselaer; meters, 1200 Hersey & Pittsburgh; av. daily cons. 2,500,000 gal.; serv. con. 4045; ord. pres. 45 to 100 lb.; fire pres. same.

Rates: flat, $8 yr., bath $2, closet $2; meter, min. charge 50c. mo., 25c. 1000 gal. max.

GRAVETT, 569.

MUNICIPAL.

Supt., E. H. Crayton.....Gravett
Village Clerk, J. W. Ogelsby..... "

Wells, 2 12-in. 300 ft. deep; ¼ mi. from center distribution.

Pump, 144,000 gal. Keystone Driller, belted to oil engines, 2 40-hp. Muncie; elec. motor, 3 ph. 60 cys. 2,300 v. Electric Mach., pumping to elev. tank, 50,000 gal., steel.

Hyd. 4, hose con. 2½-in. Eureka; av. daily cons. 30,000 gal.; ord. pres. 50 lb., fire pres. same.

HAMBURG, 1,787.

HAMBURG WATERWORKS CO.

Mgr., W. E. Kittrell.....Hamburg
Supt., J. C. Kittrell..... "

HARRISON, 1,602.

MUNICIPAL.

Mayor, George C. Frew.....Harrison
Cons. Engr., A. C. Moore.....Joplin, Mo.

Preliminary plans and reports have been completed for a waterworks, to cost about $100,000. Only about one-half this amount will be expended at the start.

HELENA, 8,772.

HELENA WATER COMPANY. Office, 203 Solomon Bldg.

Pres., Robt. M. Foster.....St. Louis, Mo.
V. Pres., S. C. Foster..... " " "
Sec., R. M. Foster, Jr....Little Rock, Ark.
Treas., Gen. Mgr. & Pur.
Agt., T. J. Mitchell.....Helena
Des. Engr., C. A. Sutherland..... "
Engr. P'g. Sta., C. E. Borsch..... "

Wells, 4 8 & 10-in. 500-ft. deep; ½ mi. from center business section; no purification.

Boilers, 2 return tubular 90-hp. ea. 125-lb. O'Brien, one water-tube 250-hp. 125 lb. O'Brien 1913; hand stoking; pumps, 2-2,000,000 gal. ea. comp. duplex Worth.; air compressors, one comp. L-D-G 1907, one steam Knowles; pumping to reservoir, 1,000,000 gal.

Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 140, hose con. 2½-in. R. D. W.; valves, 98 r. & l. h. opening; meters, 800 various; av. daily cons. 1,500,000 gal.; serv. con. 1550; ord. pres. 60 to 125 lb., fire pres. 125 lb.

Rates; flat, $6 quarter, bath $5, closet $4; meter, min. charge 70c. mo. 2,250 gal., 30c. 1,000 gal. max., 15c. min.

HOPE, 3,369.

MUNICIPAL WATER & LIGHT PLANT.
Supt., Charles M. Richards.....Hope
Engr. P'g. Sta., J. Brown..... "

Impounding reservoir, 250,000 gal. & wells, 3 8-in. 520 to 560 ft. deep; at center distribution; no purification.

Boilers, 2 tubular 150-hp. ea. Casey-Hedges; gas fuel; pumps, 2 Deane & Worth.; pumping direct & to elev. tanks, 86,000 gal. iron.

Pipe, 23 mi. 4 to 12-in. c. i.; hyd. 115; serv. con. 2½-in. Pratt & Cady; valves, r. h. thd. Western; meters, 700 mostly Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 1600; ord. pres. 25 to 43 lb., fire pres. 70 to 150 lb.

HOT SPRINGS, 14,434.

HOT SPRINGS WATER CO. (Controlled by Central Arkansas Railway & Light Corp. Office, 60 Broadway, New York, N. Y.)
Pres., E. M. Sanderson...New York, N. Y.
V. Pres. & Treas., L. C. Gerry..... " " " "
Sec., J. Dunhill..... " " " "
Gen. Mgr., F. P. Dillon.....Hot Springs

HUTTIG, 1,240.

UNION SAW MILL CO.
Supt., S. W. Scott.....Huttig

JONESBORO, 7,123.

MUNICIPAL WATER AND LIGHT PLANT.
Supt. & Mgr., J. F. Christy.....Jonesboro
Sec., J. E. Parr..... "

Wells, 8 8-in. & 10-in. 104 to 1200 ft. deep; reservoir, 350,000 gal.

Boilers, 4 tubular 525-hp. Murray & O'Brien; hand stoking; pumps, 7 deep well American, one deep well Gregg, 1-2,000,000 gal. L-D-G., 2-1,000,000 gal. ea. Worth., elec. motors, 2-30-hp. 110 & 220 v. 2 ph. 60 cys.; pumping direct & to standpipe (1899) 14 ft. in diam., 100 ft. high, iron.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 108, hose con. 2½-in. Rensselaer; valves, r. & l. h. thd. Crane; meters, 250 mostly Neptune; av. daily cons. 800,000 gal.; serv. con. 1750; ord. pres. 40 to 72 lb., fire pres., 90 to 115 lb.

JUNCTION CITY, 1,065.

CITIZENS' ICE & PUBLIC UTILITY CO. (Successor to Junction City Light & Water Co.).
Pres. & Gen. Mgr., R. G. Brown.....Junction City
V. Pres., W. V. Brown..... " "
Sec. & Treas., D. K. Brown... " "
Engr. P'g. Sta., C. P. Hawkins " "

Boiler, 22-hp. Atlas; steam engine, 100-hp. Atlas.

KINGSLAND, 445.

Supplied by FORDYCE LIGHT & WATER Co. See Fordyce.

LAKE VILLAGE, 1,074.

MUNICIPAL.
City Clerk, G. H. Bogby.....Lake Village

LEWISVILLE, 975.

LEWISVILLE LIGHT & WATER CO.
Owners, G. W. Dobson.....Lewisville
" A. T. Ward..... "

LITTLE ROCK, 45,941.

ARKANSAW WATER COMPANY. Supplies Argenta & Pulaski Heights. (Controlled by American Waterworks & Electric Company, 50 Broad St., New York, N. Y.)
Pres., A. M. Lynn.....New York, N. Y.
V. Pres., M. F. Riley..... " " " "
Sec., Treas. & Supt., G. M. Gadsby.....Little Rock
Cons. Engr., Geo. W. Biggs, Jr.....New York, N. Y.
Engr. P'g. Sta., W. J. Dominick.....Little Rock
Chemist, O. M. Smith..... " "

Arkansas River & wells, 8 8-in. 60 to 75 ft. deep; 2.75 mi. from center business section; settling basin, 2,500,000 gal.; coagulating basin, 5,000,000 gal.; mech. filters, 8,-500,000 gal. N. Y. American National Jewell; chemicals, sulphate of alumina, hypochlorite of lime, sulphate of iron & lime.

Boilers, 4 water-tube 210-hp. ea. 110 lb. Heine 1914; hand stoking; pumps, 2-2,250,-000 gal. hor. comp. d. act. Blake, 1-5,000,-000 gal. hor. tri. exp. d. act. Prescott, 1-500,000 gal. hor. comp. d. act. Worth., 1-500,000 gal. vert. tri. exp. d. act. Worth. 1915; purchase energy from Little Rock Railway & Elec. Co.; pumping to reservoir, 5,000,000 gal. & standpipe, 290,000 gal.

Pipe, 150 mi. 2 to 24-in. c. & galv. i.; hyd. 900, hose con. 2½ & 3-in. Ludlow; valves, Ludlow; meters, 5,000-Neptune; av. daily cons. 4,500,000 gal.; serv. con. 10,000; ord. pres. 75 lb.

Rates; flat, $5.50 6-mo., bath $4, closet $4; meter, 90c. mo. 3,000 gal., 30c. 1,000 gal. max., 5c. min.

LONOKE, 1,547.

LONOKE LIGHT & WATER PLANT.
Owner & Mgr., W. Y. Bransford...Lonoke

Boiler, 150-hp. Atlas; steam engine, 250-hp. Corliss Bates.

LUXORA, 677.

LUXORA WATER & LIGHT CO.
Owner, Gen. Mgr. & Pur. Agt., C. B. Wood.....Luxora
Sec. Treas., Wm. Wood..... "

Mississippi River; 2,000 ft. from center business section; mech. filters, 30,000 gal. Kennecott; chemical, sulphate of alumina.

Boilers, one fire-tube 70-hp. 100 lb. Southern 1908; hand stoking; pumps, 1-50,000 gal. hor. single d. act. Knowles, 1908, 1-

50,000 gal. hor. duplex F. M. 1912 belted to gas engine, 4-hp. F. M. 1912; pumping to elev. tank (1910) 15,000 gal. wood Caldwell.

Pipe, 5 mi. ½ to 4-in.; hyd. one, hose con. 1½-in. Kupferle; valves, r. h. opening; meters, none; av. daily cons. 25,000 gal.; serv. con. 100; ord. pres. 25 lb., fire pres. 100 lb.

Rates; flat, $1 mo., bath 50c., closet 50c.

McGEHEE, 1,157.

MUNICIPAL.

Chmn. Comrs., Scott McGehee...McGehee
Comr., J. C. Rapp..... "
" W. H. Paul..... "
" J. J. Simmons..... "
Supt. & Des. Engr., W. H. Wright "

Wells, 2 8-in. 550 ft. deep; ½ mi. from center business section.

Pumps, 1-200,000 gal. vert. centrifugal single Luitweiler 1913 geared to elec. motor, 15-hp. 110 to 220 v. 3 ph. 60 cys. G. E. 1913; pumping to elev. tank (1913) 100,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 24, hose con. 2½-in. Eureka; valves, 10 l. h. opening Iowa; meters, 275 Pittsburgh; av. daily cons. 750,000 gal. 95%; serv. con. 275; ord. pres. 50 to 65 lb., fire pres. 65 to 75 lb.

Rates; meter, $1.50 mo. 3,000 gal., 50c. 1,000 gal. max., 26c. min.

MARIANA, 4,810.

MUNICIPAL.

Chm. Comrs., J. E. Stevenson....Mariana
Comr., R. D. Griffis..... "
Comr., M. H. Ford..... "
Supt., E. C. Guerrant..... "

Wells, 2 6-in., 619 & 604 ft. deep; ¼ mi. from center distribution.

Boilers, 2 tubular 100-hp. Casey-Hedges; hand stoking; pumps, 2-1,080,000 gal. Worth.; pumping to reservoir, 75,000 gal. & elev. tank, 60,000 gal., steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. Rensselaer; valves, 10 r. h. thd.; meters, 27 various; serv. con. 400; ord. pres. 50 to 65 lb., fire pres. 100 to 125 lb.

Rates: flat, $1.50 quarter, bath $1.50, closet $1; meter, 25c. 1000 gal.

MARKED TREE, 2,026.

THE RITTER CO.

The distribution system of this company covers about one-third of the town.

MENA, 3,953.

MUNICIPAL.

Mayor, A. H. Scroggins.....Mena
City Clerk, G. W. Horner..... "
Fire Chief & Supt., Jesse Low..... "

MONTICELLO, 2,274.

MUNICIPAL WATER & LIGHT PLANT.

Pres., R. L. Hyatt.....Monticello
V. Pres., Edward Wells..... "
Sec., V. McCoy..... "
Treas., G. W. Boyd..... "
Mgr. & Supt., B. A. Trammell "
Contracting Agt., W. Hardy....Monticello
Engr. P'g. Sta., W. A. Trammell.. "

Boiler, 200-hp. W. & W.; steam engines, 200-hp. Ball.

MORRILLTON, 2,424.

MORRILTON WATER CO.

Pres., S. W. Simpson.....Morrillton
Sec., M. A. Metzger..... "
Treas., I. A. Dowdle..... "
Supt., Jim Scanlon..... "
Ch. Engr. P'g. Sta., C. H. Snyder "

Arkansas River; 2 mi. from city limits; coagulating basin, 100x100 ft.; mech. filters, 50,000 gal.; chemical, sulphate of alumina.

Boilers, 2 100-hp. ea.; hand stoking; pumps, 2-720,000 gal. Platt; pumping to standpipe (1907) steel & to reservoir, 80,000 gal.

Pipe, c. i.; hyd. 60, hose con. 3½-in. Roe Stephens; valves, 25 Kennedy & Crane; meters, 25 various; av. daily cons. 80,000 gal.; serv. con. 250; ord. pres. 50 to 70 lb., fire pres. same.

NEWPORT, 3,557.

NEWPORT WATER, LIGHT & POWER CO.

Pres., B. H. Walker.....Aurora, Mo.
V. Pres., Mrs. M. L. Walker.. " "
Sec., Treas. & Supt.,
S. W. Faulkner.....Newport

Pipe, 10 mi.; hyd. 70; meters, 15; av. daily cons. 27,000 gal.

OSCEOLA, 1,769.

MUNICIPAL.

Comr., J. C. Young.....Osceola
" C. L. Moore, Jr..... "
" Frank Mounts..... "
Town Clerk, Leo Sullivan..... "
Supt., Ed. Teoford..... "

Artesian well, 6-in. 1,475-ft.deep; 1,000 ft. from center business section; no purification.

Pumps, 1-360,000 gal. vert. triplex Wagner 1913 belted to elec. motor, 20-hp. 220 v. s. ph. 60 cys. Wagner 1913, 1-360,000 gal. vert. triplex F. M. 1908 d. con. to gasoline engine, 25-hp. F. M. 1908; pumping to elev. tank (1908) 50,000 gal. iron.

Pipe, 4 to 8-in. c. i.; hyd. 27, hose con. 2½-in.; meters, 80 various; av. daily cons. 85,000 gal.; serv. con. 225; ord. pres. 45 to 50 lb., fire pres. same.

Rates; flat, $1 mo., bath 50c., closet 50c.; meter, 40c. 1,000 gal. max., 8c. min.

PARAGOULD, 5,248.

MUNICIPAL.

Supt., L. Stedman.....Paragould
City Engr., E. B. Waddell..... "

PINE BLUFF, 15,102.

THE PINE BLUFF COMPANY.

Pres., F. C. Bridges.....Pine Bluff
V. Pres., H. R. Dennis..... "
Sec. Treas. & Gen. Supt.,
Byron C. Fowles..... "

Wells,4-900 ft. deep; impounding reservoir, 1-3,000,000 gal.

Boilers, 6 water-tube 300-hp. ea. B. & W. pumps, 2-4,000,000 gal. Worth.; pumping to reservoir, 2 compartments 134x110-14 ft. ea. 3,000,000 gal.

Pipe, 35 mi. 4 to 20-in. ci.; hyd. 312, hose con. 2½-in. Rensselaer; valves, 239 Crane; meters, 2301 National; av. daily cons. 1,500,000 gal.; serv. con. 2301; ord. pres. 45 to 50 lb., fire pres. 100 lb.

Rates: all meter $3 1000 cu. ft. max., $1.12½ min.

PRESCOTT, 2,705.

MUNICIPAL WATER & LIGHT WORKS.

Chmn. Comrs., R. P. Arnold.....Prescott
Comr., John A. Davis..... "
" Ira Gee..... "
" Thorburn..... "
Supt. & Ch. Engr. P'g. Sta., A. R. Taylor..... "

Artesian wells, five 2 to 8-in., 220 to 1100 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 2 marine 150-hp. ea., Casey-Hedges; hand stoking; pumps, four deep well 250,000 gal. Cook; air compressor, 400,000 gal. Ingersoll-Rand; pumping to reservoir 10x25 ft. 30,000 gal.; standpipe (1892) 12 ft. in diam. 100 ft. high, iron.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 16, hose con. 2½ in. Rensselaer; valves, 11 l. h. thd.; meters, 60 Pittsburgh; av. daily cons. 250,000 gal; serv. con. 360; ord. pres. 35 to 45 lbs., fire pres. 100 to 110 lb.

Rates; flat, 93½c. mo.; meter, min. charge $1 mo., 50c. 1000 gal. max., 10c. min.

PULASKI HEIGHTS, 683.

Supplied by Arkansaw Water Co. See Argenta.

RECTOR, 1,859.

RECTOR LIGHT & WATER CO.

Owner, James N. Petrie.....Rector

Waterworks not installed yet but expect to begin work as soon as business conditions warrant.

ROGERS, 2,820.

ROGERS LIGHT & WATER CO.

Pres., George D. Locke.....Rogers
V. Pres., J. E. Falker..... "
" " F. F. Freeman..... "
Sec., Treas. & Supt., V. McDaniel "
Engr. P'g. Sta., J. R. Boyd..... "

Boiler, 290-hp. Erie; steam engine, 310-hp. Bates.

RUSSELLVILLE, 10,936.

SEVEN CITIES COMPANY.

Pres., Henri Chonteau, Security Bldg.....St. Louis, Mo.
Sec.-Treas., Edgar Brewster.....Pine Bluff
Gen. Mgr., C. M. Gassaway...Russellville
ngr. P'g. Sta., William Guest.. "

Impounding reservoir on Illinois River; 5.5 mi. from center business section; settling basins, 2; coagulating basins, 2; chemical, sulphate of iron & lime.

Boilers, 2 fire-tube 150-hp. 129 lb. Brownell 1912; hand stoking; pump, 2-252,000 gal. hor. centrifugal Worth. 1912, d. con. to elec. motors, 2 30-hp. 220 v. 3 ph. 60 cys. Westg. 1912; steam engine, 420-hp. Brownell 1912; water turbines, 4 Davis; elec. generators, 3 150 & 200-kva. G. E. & Westg.; pumping to reservoir, 270,000 cu. ft.

Pipe, 5.5 mi. 1½ to 12-in. c. & galv. i.; hyd. 40, hose con. 2½-in.; valves, 6 l. h. opening Worth.; meters 250 National, Thomson & Worth.; av. daily cons. 100,000 gal.; serv. con. 450; ord. pres. 70 to 75 lb., fire pres. 75 to 80 lb.

Rates: meter, $1 mo. 25,000 gal., 40c. 1,000 gal. max., 10c. min.

SEARCY, 2,331.

MUNICIPAL, WATER WORKS IMPROVEMENT DISTRICT. No. 1.

Chmn. Comrs., E. A. Robbins.....Searcy
Sec., J. H. Headlee..... "
Mgr., E. R. Candor..... "
Treas., J. H. Deiner..... "
Cons. Engrs., W. S. Shields Co.,Chicago, Ill.

Wells, 2 10-in., 260 ft. deep; reservoir, 80,000 gal.

Pumps, 2-720,000 gal. centrifugal Advance, driven by elec. motors, 40-hp. 250 v. d. c. Westg.; pumping to elevated tank, 135 ft. high, 60,000 gal. steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 72, hose con. 2½ in. Columbian; valves, 48 l. h. thd.; meters, 300 Pittsburgh; av. daily cons. 35,000 gal.; serv. con. 284; ord. pres. 60 lb., fire pres. 120 lb.

Rates: flat, none; meter, min. charge 40c. mo. 5000 gal., 35c. 1000 gal. max., 10c. min.

SILOAM SPRINGS, 2,405.

MUNICIPAL WATER & LIGHT PLANT.

Supt., R. L. Neely.....Siloam Springs
City Engr., E. M. Brown... " "
Pur. Agt., M. Holvorson.... " "
Engrs. P'g. Sta., H. Kent... " "
" " " J. H. Treadwell..... " "
Chmn. Comrs., Connoly Harrington..... " "

Boiler, 140-hp. Erie; steam engine, 325-hp. Erie.

STAMPS, 2,316.

BODCAW LUMBER CO.

Pres. William Buchanan...Texarkana, Tex.
V. Pres. & Mgr., W. C. Brown.....Stamps
Sec. Treas., J. A. Buchanan, Texarkana, Tex.
Supt., Boyd Anderson.....Stamps
Engr. P'g. Sta., M. Whalen..... "

Boiler, 300-hp. Erie; steam engine, 150-hp. Clark.

STUTTGART, 2,740.

STUTTGART WATER & ELECTRIC LIGHT Co.

Pres., LaSalle Stoops.....Stuttgart
Mgr., A. B. Stoops..... "
Engr. P'g. Sta., H. Longiader..... "

Boiler, 180-hp. Frick; steam engine, 180-hp. Kupferle.

TEXARKANA, 5,655.

TEXARKANA WATER CORPORATION.

(Controlled by American Pipe and Construction Company, 112 North Broad St., Philadelphia, Pa., for executive officers see Philadelphia.) Supplies Texarkana, Tex.
Supt., A. A. Haynes.....Texarkana, Ark.

Surface wells, 60; reservoir, 2,500,000 gal.; mechanical filters, 2.

Boilers, three 100-hp.; pumps, one 1,000,000 gal. L-D-G., one 2,000,000 gal. F. M., one 1,000,000 gal F. M.; standpipe, 20 ft. in diam. 110 ft. high, steel.

Pipe, 25.85 mi. 4 to 12-in.; hyd. 214; valves, 277; meters, 2070; av. daily cons. 1,200,000 gal.; serv. con. 2191; ord. pres. 30 to 110 lb.

VAN BUREN, 3,878.

VAN BUREN WATER Co.

Pres., W. H. Phelps.....Carthage, Mo.
Sec., L. H. Southmayde.....Van Buren
Treas. & Supt., E. H. Crow. " "
Engr. P'g. Sta., A. T. Roach. " "

Impounding reservoir on Lee's Creek, 1-3,000,000 gal.; 5 mi. from center business section; coagulating basin, 1-1,500,000 gal.

Boilers, one tubular 100-hp. 150 lb. O'Brien 1913, 2 tubular 80 hp. ea. 100 lb. O'Brien 1900; hand stoking; pumps, 1-1,000,000 gal. hor. tri. exp. F. M. 1913, 1-1,000,000 gal. hor. comp. Deane 1900; pumping to reservoir, 3,000,000 gal.

Pipe, 14 mi. 4 to 10-in. c. i.; hyd. 46, hose con 2½-in. Rumsey; valves, 28 l. h. opening; meters, 441 Worth.; av. daily cons. 650,000 gal. 82%; serv. con. 908; ord. pres. 80 to 110 lb., fire pres. same.

Rates; flat, $2.00 quarter, bath $1.25, closet 75c.; meter, $1 quarter 1000 gal, 60c. 1000 gal. max., 20c. min.

WARREN, 2,057.

THE WARREN LIGHT & WATER Co.

Pres., F. L. Purcell.....Warren
V. Pres., W. J. Savage..... "
Sec. & Treas., Carl Hollis..... "
Gen. Mgr. & Pur. Agt., J. A. Wells.. "
Engr. P'g. Sta., Troy Smith..... "

WYNNE, 2,353.

MUNICIPAL.

Pres. Comrs., S. L. Austelle.....Wynne
V. Pres. E. L. Burke..... "
Sec., J. E. Harris..... "
Supt., Odie Owen..... "
Ch. Engr. P'g. Sta..... "

Wells, 2 6-in. 100 ft. deep; reservoir, 55,000 gal.

Boilers, 2 tubular 100-hp. W & W.; hand stoking; pumps, two deep well 150,000 gal. Cook; pumping to elevated tank (1899) 110 ft. high, 55,000 gal., steel.

Pipe, 6 mi. 4 & 6-in. c. i.; hyd. 35, hose con. 2½-in. Rensselaer; meters, 50 Buffalo & Worth;. av. daily cons. 100,000 gal.; serv. con. 300; ord. pres. 55 lb., fire pres. same.

Rates; meter, 40c. 1000 gal.

CALIFORNIA

ALAMEDA, 23,383.

SUPPLIED BY PEOPLES WATER CO. For main system and executive officers, see Oakland.

Wells at 24th Ave. & San Leandro Reservoir.

Pumps, 1-24,000,000 gal.; pumping to elev. tank, 250,000 gal.

Pipe, 4 to 12-in. c. i.; hyd. 395; ord. pres. 30 lb.

ALHAMBRA, 5,021

SAN GABRIEL VALLEY WATER CO.

V. Pres., Frank Griffith.....Alhambra
Sec., A. G. Walker..... "
Supt., W. F. Goble..... "

Wells, 16 7 to 16-in. 200 to 1000 ft. deep; 2 mi. from center distribution; reservoirs, four 8,500,000 gal.; no purification.

Pumps, 9 centrifugal 115,000 to 2,600,000 gal. B. J. driven by elec. motors, nine 10 to 100-hp. 440 v. 2 & 3 ph. 50 & 60 cys. Westg. & G. E.; pumping to reservoirs, one 100,000 gal.; one 3,500,000 gal.

Pipe, 83 mi. 4 to 12-in. c. i. & steel; hyd. 125, hose con. 2½-in. Rensselaer & Keystone; valves, 450 l. h. thd. various; meters, 2160 mostly Neptune, av. daily cons. 1,890,000 gal.; serv. con. 2363; ord. pres. 20 to 60 lb., fire pres. same.

Rates; meter, min. charge $1.25 1300 cu. ft.; 7½c. 100 cu. ft.

GRAVES & BEAN. Divide the water equally, each owning a reservoir.

Owner, J. W. Graves.....Los Angeles
Owner, Jacob Bean.....Alhambra

Wells, 2 10 & 12-in. 257 ft. deep; 1½ mi. from center distribution; no purification.

Pumps, 2 Layne & Bowler driven by elec. motors, 2 25 & 30-hp.; pumping to reservoirs, 750,000 gal. (Graves).

The following distribution system is that of Mr. Graves:

Pipe, 5 mi. 4 to 10-in.; hyd. 4, hose con. 4-in.; meter, 130 Neptune; serv. con. 130; ord. pres. 100 to 160 lb., fire pres. same.

Rates; meter, min. charge $1.25 mo. 1300 cu. ft., 7½c. 100 cu. ft.

ALVERADO, 642.

SYSTEM OF THE PEOPLES WATER CO. For executive officers and main description of system, see Oakland.

Pumps, 2-9,000,000 gal.; pumping direct.

Pipe, 4-in.; hyd. 7.

AMADOR, 984.

SUPPLIED BY SUTTER & AMADOR WATER CO. See Sutter Creek.

ANAHEIM, 2,628.

MUNICIPAL.

Pres. Trustees, Max Nebelung ....Anaheim
City Clerk, Edward C. Merritt.... "

Wells, 2 12-in. 150 ft. deep.

Boilers, 3 125-hp. ea.; oil fuel; pumps, 2-576,000 gal. vert. centrifugal driven by elec. motor, 30-hp. 200 v. a. c., 1-720,000 gal. steam Deane; pumping direct and to tank, 172,000 gal. concrete.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 41; av. daily cons. 278,000 gal.

Rates; flat, min. $1 mo.; meter, min. charge $1 mo., 13⅓c. 1000 gal.

ANDERSON, 700.

ANDERSON WATER CO.

Supt., James C. Anderson.....Anderson

Wells, 2; pumps, 1-360,000 gal. triplex, 1-432,000 gal. driven by elec. motors; pumping to reservoir, 900,000 gal.

Pipe, 4 to 11-in.; hyd. 24; ord. pres. 62 lb.

ANGELS, *2,200.

UTICA MINING CO.

Impounding reservoir, 150,000,000 gal.; 4 mi. from center business section.

Gravity distribution from reservoir, 10,-000,000 gal.; pipe, 4 to 8-in.

ANTIOCH, 1,024.

MUNICIPAL.

Pres. Trustees, S. J. Ledinghouse...Antioch
City Clerk, J. E. McElheney..... "
City Treas., E. B. Leeds..... "

San Joaquin River; ½ mi. from center distribution.

Boilers, 240-hp.; pumps, 1-720,000 gal. steam Worth.; pumping to elev. tank, 100,-000 gal.

Pipe, 3 & 6-in.; fire pres. 75 lb.

ARCATA, 1,121.

UNION WATER CO.

Pres. & Supt., N. H. Falk.....Arcata
V. Pres., C. E. Falk..... "
Sec. & Asst. Supt., Len Yocom..... "

Impounding reservoir on creeks, 1,700,000 gal.; 1.5 mi. from center distribution; no purification.

Pumps, 1-288,000 gal. Krogh driven by elec. motor, 15 kw. 3 ph. 60 cys. G. E.; elec. energy from North Mountain Power Co.; pumping direct & to reservoir, above.

Pipe, 11.1 mi. 4 to 10-in. galv. i.; hyd. 33, hose con. 3-in. Crane; valves, 25 r. h. thd. Crane; meter, 100 Neptune; av. daily cons. 150,000 gal.; serv. con. 500; ord. pres. 50 to 60 lb., fire pres. 85 to 115 lb.

Rates; meter, 35c. 1000 gal. max., 20c. min.

ARROYO GRANDE, 3,646.

RUSSELL ROBISON WATER & ELECTRIC CO. (Held by Midland Counties Public Service Corporation, 805 Garland Bldg., Los Angeles.)

Pres. & Mgr.,
Russell Robison.....Arroyo Grande
Sec., N. A. Robison..... "
Treas., Bank of Arroyo Grande "
Engr. P'g. Sta., W. K. Hart.. "

Infiltration well & creek.

Boilers, 150-hp. Atlas; pumps, 2-326,000 gal. belt driven from steam engine, 150-hp. Nordberg or elec. motor, 15-hp.; pumping to tank, 10,000,000 gal. ea. & reservoir, 60,000 gal. Rumsey.

Pipe, 4-in.; hyd. 9.

AUBURN, 2,376.

Supplied by the Placer Water District of the PACIFIC GAS & ELECTRIC COMPANY. See Placer Water District. For executive officers, see San Francisco.

AZUSA, 1,477.

MUNICIPAL LIGHT & WATER PLANT.

The San Gabriel Valley is divided into nine districts, each of which has a representative who is one of a central committee.

Supt., H. W. Thompson.....Azusa
Cons. Engr., H. S. Gierliech..... "
Collector of Revenue, I. B. Barnes.... "

San Gabriel River; gravity flow to distributing reservoirs, two 1,982,000 gal.

Hyd. 86, hose con. 2-in. various; valves, 65 r. h. thd. various; meters, 350 various; serv. con. 600; ord. pres. 45 lb., fire pres. same.

Rates; flat, 75c.; mo. meter, min. charge, 75c. mo. 1600 cu. ft., 4c. 100 cu. ft.

BAKERSFIELD, 12,727.

WESTERN WATER COMPANY. IRRIGATION.

Pres. & Gen. Mgr., C. B. Colby..Bakersfield
V. Pres., F. Hall..... "
Sec.-Treas., I. Hochheimer..... "
Supt. & Des. Engr., W. A. Fischer "

Impounding reservoir, 3,108,000 gal. on Kern River; & wells, 2 14-in. 352 ft. deep; 16 & 24 mi. from center business section; no purification.

Wells, 3 hor. tubular 125-hp. 125 lb. Titusville 1911, 3 fire-tube 45-hp. 125 lb. National 1912; mech. stoking, oil fuel; pumps, 2-900,000 gal. hor. simple d. act. F. M. 1911, 1-252,000 gal. hor. simple d. act. F. M. 1912, 1-1,440,000 gal. vertical quintuplex Aldrich 1914 belted to gas engine, 255-hp. F. M. 1914, 3-900,000 gal. hor. duplex F. M. 1911, d. con. to gas engines, 3 250-hp. ea. F. M. 1911; pumping direct & to elev. tanks, 3 (1911, 1914) 2,940,000 gal. steel, Lacy Mfg. Co.

Pipe, 65 mi. 6 to 12-in. steel; meters, National; av. daily cons. 1,680,000 gal. 95%; ord. pres. 110 to 400 lb.

Rates; 3c. bbl. max., 2¾c. min.

ELECTRIC WATER CO. Office, 1703 F St.

Sec., F. P. Munger.....Bakersfield

Wells.

Pumps, 8-1,440,000 gal. centrifugal B. J. d. con to elec. motors, 40-hp. Westg.; elec. energy from San Joaquin Light & Power Co. and from local plant in connection which contains an electric generator, 2000 kw. d. con. to steam turbine, and one 5000 kw. d. con. to steam turbine; pumping direct.

Pipe, 4 to 10-in.; hyd. 170; hose con. 2½ to 4-in.; av. daily cons. 7,500,000 gal.; ord. pres. 30 to 40 lb.

BAKERSFIELD WATER CO. Office, 410 Humboldt St.

Pres., R. Williams.....Bakersfield
Sec., S. P. Williams..... "

Wells, on opposite side of town and a third station on Baker St., near Jackson.

Pumps, 1-1,728,000 gal. turbine B. J. d. con. to elec. motor, 75-hp., 1-1,440,000 gal. centrifugal driven by elec. motor; pumping to tanks, 2-50,000 gal. wood.

Pipe, 4 to 10-in.; hyd. 37; ord. pres. 55 to 60 lb.

BANNING, 650.

BANNING WATER COMPANY.

BERKELEY, 404,334.

SYSTEM OF THE PEOPLES WATER CO. For executive officers and main description of system, see Oakland.

Lake Temescal & wells in San Leandro & Richmond; impounding reservoir, 35,000,000 gal. & equalizing reservoir, 7,500,000 gal.

Pipe, 4 to 24-in.; hyd. 349; ord. pres. 70 lb.

BIGGS, 403.

MUNICIPAL.

Ch. Engr. P'g. Sta., W. B. Hurd.....Biggs
City Clerk, C. C. Spence..... "

Wells, 4, 12-in. 100 ft. deep.

Pumps, two 1,238,000 gal. B. J. & U., belt connected to gasoline engine, 40-hp. Axelson, and electric motor, 30 kw. 120 v. 3 ph. 60 cys. Westg.; pumping to elevated tank, 32,000 gal. redwood.

Hyd. 30, hose con. 2½ in.; serv. con. 114; ord. pres. 40 lb., fire pres. 120 lb.

Rates; meter, 10c. 1000 gal.

BISHOP, 1,190.

MUNICIPAL.

Pres. Trustee, W. W. Watterson.....Bishop
City Clerk, W. W. Yandell..... "
City Treas., Emil Watterson..... "

Bishop Creek & irrigation canal; reservoir, 122,200 gal. concrete; 3 mi. from center distribution.

Gravity distribution; pipe, 6-in.

BOULDER CREEK, 544.

BOULDER CREEK ELECRIC LIGHT & WATER CO.

Pres. & Mgr.,
H. L. Middleton.....Boulder Creek
V. Pres., E. M. Brisac..... " "
Sec., E. M. Anthony..... " "
Engr. P'g. Sta., J. M. Spotts. " "

Reservoir, 250,000 gal. fed by flume from flowing creek.

Gravity distribution from reservoir, 62,000 gal.; pipe, 4 & 6-in.; hyd. 8.

BRAWLEY, 881.

MUNICIPAL.

Pres., Trustees, W. Beal .....Brawley
City Clerk, J. M. Blais..... "

City Treas., F. F. Palmerlee.....Brawley
City Engr., E. J. Park..... "

Colorado River by ditches of the Imperial Valley Irrigation system; settling basins, 2-1,000,000 gal.

Pumps, 1-720,000 gal. turbine driven by elec. motor, 40-hp., 1-720,000 gal. centrifugal driven by gas engine, 20-hp. Rockford; pumping to elev. tank, 50,000 gal. steel.

Pipe, 4 to 8-in.; hyd. 29, hose con. 2½ to 4-in.

BURBANK, 450.

PRIVATELY OWNED.

Wells at Sepulveda, southeast of Burbank.

Pump, 1-778,000 gal. comp. steam Worth; air lift, Ludlow & Gordon; pumping to reservoir, 1,500,000 gal.

Pipe, 2 to 10-in.; hyd. 19, hose con. 1½-in.; ord. pres. 100 lb.

BURLINGAME, 1,565.

BURLINGAME MUNICIPAL WATERWORKS.

Pres. Trustees,
Buscave J. McGregor.....Burlingame
City Clerk, J. R. Murphy..... "
Sec., E. F. Verrill..... "
City Engr., E. Wold..... "

Buy water from Peninsula Water Co., who in turn buy from Spring Valley Water Co. Turned into distributing mains direct.

Pipe, 2 to 8-in.; hyd. 25, hose con. 2½-in.; ord. pres. 60 to 90 lb.

CALEXICO, 797.

MUNICIPAL.

Pres. Trustee, J. H. Holmes.....Calexico
Supt., Lloyd Prewitt..... "
City Treas., Walter P. Aitken..... "
City Clerk, Robert L. Plasby..... "
City Engr., Mr. Foster..... "

Colorado River by way of the ditches of the Imperial Valley Irrigation system. Settling basins, 3-800,000 gal.

Pumps, 1-619,000 gal. duplex driven by gasoline engine, 25-hp. F. M.; 1-216,000 gal. centrifugal driven by gasoline engine, 8-hp. International; pumping direct & to elev. tank, 50,000 gal. steel.

Pipe, 3 to 6-in.; hyd. 28; ord. pres. 100 lb.

CALISTOGA, 751.

CALISTOGA WATER CO.

Pres., C. W. Waller.....Calistoga
Supt. & Sec., H. B. Kinney..... "

Mountain stream and wells, 2 8-in. 210 ft. deep, 1½ mi. from center distribution; impounding reservoir, 150x150 ft. 1,500,000 gal.; no purification.

Pumps, one 288,000 gal. belt connected to electric motor, 220 v. 3 ph. 60 cys. G. E.; current from Calistoga Electric Co.; pumping to reservoir above.

Pipe, 7 mi. 4 to 12-in. mostly w. i.; hyd. 20, hose con. 2½-in.; valves, 60 r. h. thd. Crane; meters, 250 Neptune; serv. con. 231; ord. pres. 60 lb., fire pres. same.

Rates: meter, min. charge $1.50 mo. 30c. 1000 gal., max., 25c. min.

CAMPBELL, 500.

THE CAMPBELL WATER COMPANY.

Pres. & Mgr., E. R. Kennedy.....Campbell
Sec., John F. Duncan..... "

Well, 5x10 ft. with 2 12-in. driven wells in bottom, 170 & 200 ft. deep; no purification.

Pumps, 2 centrifugal, 1,440,000 & 1,728,000 gal. Bean belt driven by elec. motors, 75-hp. 220 v. 3 ph. Westg., pumping to elevated tanks, 4 (1906) 12 ft. in diam. 40 ft. high 20,000 gal. ea. wood.

Pipe, 2300 ft. 4 & 6-in. w. i. hyd. 10, hose con. 2-in.: meters, 150; av. daily cons. 30,000 gal.; serv. con. 187; ord. pres. 20 lb., fire pres. same.

Rate: flat, $1.50 mo.; meter, min. charge $1 for 3000 gal., 20c. 1000 gal.

CARMEL, 400.

SUPPLIED BY THE MONTEREY COUNTY WATER WORKS. See Monterey.

CERES, *500.

OWNED BY J. M. VINCENT.

Supt. & Mgr., J. M. Vincent.....Ceres

Wells, 2 7-in. 112 & 114 ft. deep; near center distribution.

Pumps, 2-576,000 gal. centrifugal Canton & Platt; gasoline engines, 20-hp. Osterburg; elec. motors, 3 ph. 60 cys. Westg.; elec. energy from Yosemite Power Co.; pumping to elev. tank, 5,000 gal. wood.

Pipe, 1.2 mi. 3 & 4-in. wood; hyd. 14, hose con. 2½-in.; valves, 14 r. h. thd.; meters, 52 Neptune; av. daily cons. 75,000 gal.; serv. con. 85; ord. pres. 15 to 18 lb., fire pres. 18 to 40 lb.

Rates; flat, $1.50 mo.; meter, min. charge $1.50 mo. 6000 gal., 20c. 1000 gal. max., 10c. min.

CHICO, 3,750.

CHICO WATER SUPPLY CO. Office, 135 Broadway.

Pres., F. C. Lusk.....Chico
Sec., A. D. Simpson..... "

Wells, 2.

Boilers, 2; oil fuel; pumps, 1-2,500,000 gal. comp. duplex L-D-G, 1-1,000,000 gal. comp. single steam Thompson & Evans, 1-1,000,000 gal. steam Hooker, 1-324,000 gal. triplex Price driven by elec. motor, 50-hp., 1-453,600 gal. triplex Price driven by elec. motor, 50-hp., 1-468,000 hal. Dow d. con. to elec. motor, 75-hp.; pumping direct.

Pipe, 4 to 12-in.; hyd. 76; av. daily cons. 2,758,000 gal.

CHINO, 2,200.

MUNICIPAL.

Chmn. Wtr. Comrs., E. C. Daniels....Chino
Comr., J. C. Reher..... "
" C. M. Craw..... "
Supt., G. C. Seitel..... "
Des. Engr., C. E. Bailey..... "

Well, 16-in. 400 ft. deep; 2 mi. from center business section.

Pumps, 1-548,000 gal. vert. duplex Dow 1912 belted to elec. motor, 40-hp. 440 v. 3 ph. 50 cys. Crocker-Wheeler 1913; purchase energy from Southern California Edison Co.; pumping to reservoir, 500,000 gal.

Pipe, 7 mi. 2 to 12-in. c. i.; hyd. 51, hose con. 2½-in.; valves, 15 r. & l. h. opening Crane; meters, 201 Neptune & Union; av. daily cons. 248,000 gal.; serv. con. 457; fire pres. 70 lb.

Rates; meter, $1.25 mo. 1000 cu. ft., 12½c. 1000 cu. ft. max., 3c. min.

CHULA VISTA, 100.

Supplied by SWEETWATER WATER CO. See National City.

CLERMONT, 1,114.

CITIZENS LIGHT & POWER CO.

Supt., Willis S. Jones.....Clermont

Wells in San Antonio Canyon; 2 mi. from center distribution; reservoir, 260,000 gal.

Pumps, 1-777,000 gal. deep well Pomona driven by elec. motor, 1-432,000 gal. Luitweiler driven by elec. motor or gasoline engine, 30-hp. Western; pumping to reservoir, above.

Pipe, 4 & 6-in.; hyd. 51, hose con. 2-in.; ord. pres. 85 lb.

CLOVERDALE, 823.

MUNICIPAL.

Pres. Trustees, P. A. Yordie.....Cloverdale
Supt., F. B. Connors..... "
City Clerk, C. D. Beaulieu..... "

Russian River.

Pumps, 1-1,080,000 gal. duplex steam Worth., 1-540,000 gal. triplex driven by elec. motor; pumping to reservoir, 250,000 gal. concrete.

Pipe, 6-in.; hyd. 50, hose con. 2-in.; ord. pres. 65 lb.

CLOVIS, 500.

MUNICIPAL.

Pres., L. W. Gibson.....Clovis
City Clerk, L. E. Weldon..... "
Supt., A. E. Armstrong..... "

COALINGA, 4,199.

PLEASANT VALLEY WATER CO.

Mgr., R. L. Peeler.....Coalinga

Wells, 6 12-in. 230 ft. deep; reservoirs, 2-50,000 gal. & 1-85,000 gal.

Pumps, 1-2,160,000 gal. steam Underwriters', 1-360,000 gal. steam Bunting; pumping direct.

Pipe, 3 to 8-in. c. i.; hyd. 58.

COLFAX, 621.

KINGSTON & KECK.

Sec., Margaret Kingston.....Colfax

Gravel channel and infiltration tunnels. A small gravity system.

COLTON, 3,980.

MUNICIPAL.

Pres. Trustees, P. H. Reed.....Colton
City Clerk, N. Davenport..... "
City Treas., J. B. Adamson..... "
City Engr., H. D. Chapon..... "

Wells, 180 to 600 ft. deep; 2 mi. from center business section.

Plant No. 1: pumps, one centrifugal driven by elec. motor, 50-hp., one propeller driven by elec. motor, 50-hp.; air compressor, 2 driven by elec. motors, 100 & 150-hp.; pumping to reservoirs, 2-1,860,000 gal.

Plant No. 2: air lifts operated by compressed air from plant No. 1; pumping to reservoir, 34,000 gal.

Pipe, 4 to 12-in.; hyd. 80, hose con. 2½-in.; av. daily cons. 2,200,000 gal.

COLUMBIA, 550.

COLUMBIA WATERWORKS. (Privately owned.)

Owner, Thomas Carlin.....Columbia

COLUSA, 1,582.

MUNICIPAL.

Supt., S. T. Brown.....Colusa

Wells, 2 12-in. 325 ft. deep; ½ mi. from center distribution; no purification.

Pumps, 3-1,000,000 gal. ea. driven by oil engine, 100-hp. Doak & elec. motors, two 40 & 75-hp. 2300 v. 3 ph. 60 cys. G.E.; pumping to elevated tank 120 ft. high 110,000 gal. steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 108, hose con. 2½-in. Rensselaer; valves, 80 r. h. thd. Rensselaer; meters, 325 National; av. daily cons. 500,000 gal.; serv. con. 45 to 60 lb., fire pres. 160 lb.

CONCORD, 703.

PORT COSTA WATER CO. See also Port Costa.

Mgr., C. W. McNear.....San Francisco

Wells, 5 75 to 90 ft. deep.

Pumps, 1-504,000 gal. centrifugal driven by elec. motor, 15-hp., 1-204,000 gal. double plug gear driven by elec. motor, 7.5-hp.; pumping to elev. tank, 50,000 gal. steel.

CORAN, *500.

Ownership not reported.

Impounding reservoirs on small creek, 150,000 gal.

Gravity distribution from tanks, 2-60,000 gal wood; pipe, 3 to 6-in.; hyd., hose con. 2½-in.; ord. pres. 40 to 90 lb.

CORCORAN, 500.

CORCORAN WATER & GAS COMPANY.

Pres., G. Hanna.....Corcoran
Sec. & Treas., J. B. Mayer..... "
Supt., W. R. Mayer..... "

Artesian wells, 2 10 & 12-in. 1500 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, one motor driven 648,000 gal. B. J.; pumping to tank, 40 ft. high, 25,000 gal. wood.

Pipe, 3 mi. 4 to 12-in. iron; av. daily cons. 150,000 gal.; serv. con. 152; ord. pres 30 to 50 lb., fire pres. same.

Rates: flat, min. charge $1.00 mo.; meter, none.

CORDELIA, 287.
MUNICIPAL.
Supt., Charles E. Olsen.....Cordelia

CORONA, 3,540.
CORONA CITY WATER COMPANY.
Pres., J. G. Jameson.....Corona
Sec., C. M. Scoville..... "
Supt., H. P. Chase..... "
Wells, 5 12 & 18-in. 50 to 250-ft. deep; 10 mi. from center distribution.
Pumps, 5 driven by elec. motors, 440 v. 3 ph. 60 cys. G. E., Westg. & Crocker-Wheeler; elec. energy from same company, pumping to reservoir, 1,000,000 gal.
Pipe, 4 mi. 4 to 12-in. steel; hyd. 45, hose con. 2-in.; meters, 950 mostly Neptune & National; av. daily cons. 455,000 gal.; serv. con. 1035; ord. pres. 50 to 112 lb., fire pres. same.
Rates; meter, min. charge $1.25 800 cu. ft., 7½c. 100 cu. ft.

CORONADO, 1,477.
CORONADA WATER COMPANY. Office, Union Bldg., San Diego.
Pres., John D. Spreckels.....San Diego
V. Pres. & Gen. Mgr., Wm. Clayton..... " "
Sec. & Treas., Claus Spreckels... " "
Pur. Agt., George Holmes..... " "
Supt., B. M. Warner..... " "
Des. Engr., Andrew Ervast..... " "
Purchase water from the impounding reservoir of the city of San Diego.
Gravity distribution from reservoir, 1,735,000 gal. & elev. tank (1889) 450,000 gal. steel.
Pipe, 51.1 mi. 1 to 20-in. c. & w. i., steel & wood; hyd. 40, hose con. 2½-in.; valves, 350 l. h. opening mostly Crane & Ludlow; meters, 1480 mostly Neptune & National; av. daily cons. 500,000 gal. 100%; serv. con. 1570; ord. pres. 70 lb., fire pres. same.
Rates; flat, $1.45 mo., bath 25c., closet 25c.; meter, min. charge $2.50 mo., 30c. 1000 gal. max., 15c. min.

CORTE MADERO, *600.
Partly supplied by THE DOHERTY CO. See San Anselmo.

CORTE MADERO WATER CO.
Mgr. F. A. Wilson.....Corte Madero
Well, 5x5 ft. 32 ft. deep; no purification.
Pumps, 2-40,000 gal. Goulds belt driven by elec. motors 5 kw. 220 v. single ph. 60 cys. Century; pumping to tanks, seven 13 ft. 8-in. in diam. 10 ft. deep 70,000 gal. wood.
Pipe, 5 mi. 2 to 4-in. c. i.; hyd. 17, hose con. 2½-in.; valves, 50 r. h. thd. Crane; meters. 60 Neptune & Crane; av. daily cons. 30,000 gal.; serv. con. 115; ord. pres. 50 to 150 lb., fire pres. same.
Rates: flat, $2 mo.; meter, min. charge $2 mo., 40c. 1000 gal.

COVINA, 1,692.
MUNICIPAL.
Pres. Trustees, G. M. Beardsley.....Covina
City Clerk, E. N. Pence..... "
City Treas., J. P. Reed..... "
City Engr., F. G. Dessery.....Los Angeles
San Gabriel River; gravity distribution from reservoir, 2-3,600,000 gal.; pipe, 4 & 6-in.; hyd. 44, hose con. 2-in.; ord. pres. 10 to 15 lb., fire pres. 40 lb.

CRESCENT CITY, 1,114.
CRESCENT CITY LIGHT, WATER & POWER CO.
Pres., B. Stone.....San Francisco
V. Pres., Miss N. M. Duncan..Crescent City
Sec. & Treas., T. B. Butler.... " "
Supt. & Ch. Engr., J. W. Manley..... " "
Boiler, 140-hp.; steam engine, 80-hp. Atlas.

CROCKETT, 1,400.
PORT COSTA WATER CO. Supplies Valona.
Supt., E. H. Sidley.....Port Costa
Supplied by tapping 8-in. main from Concord.
Boiler, 50-hp.; oil fuel; pumps, 2-144,000 gal. duplex Dow, 1-6½x8-in. triplex Deane driven by elec. motor, 20-hp.; pumping direct & to storage tank, 3-125,000 gal.
Pipe, 4 to 8-in.; ord. pres. 60 to 125 lb.

CUCAMONGA, 330.
MUNICIPAL, CUCAMONGA WATER CO.
Pres. & Gen. Mgr.,
W. J. Kincaid.....Cucamonga
V. Pres., F. B. Van Fleet..... "
Sec., W. C. Belden..... "
Wells, 12 8 & 10-in. 250 ft. deep.
Pumps, 2-120,000 gal. B. J. & Pomona belt driven from gasoline engine & elec. motor, 440 v. 3 ph. 60 cys. G.E.; pumping direct.
Pipe, 20 mi. 4 to 12-in. steel, one mi. 18 to 30-in. cement; meters, 150 Neptune & National; serv. con. 191; ord. pres. 15 to 40 lb.
Rate: flat, $1 mo.

DALY CITY.
MUNICIPAL PLANT is proposed with concrete reservoir, 1,000,000 gal., mains; 4 to 10-in. c. i.

Crocker Estate Co., Office, 525 Crocker Bldg., San Francisco.
Sec., I. N. Rosenkranz.....San Francisco
Supt., Wm. Regan..... "
Ch. Engr. P'g. Sta.,
G. P. Ostrom..... "
Wells, 2 12 & 20-in. 180 & 200 ft. deep; no purification.
Pumps, one deep well 175,000 gal., Price, one triplex 288,000 gal., gasoline engine, 40-hp. Callahan; elec. motor, 20-hp. 220 v. 3 ph. G. E.; pumping to tanks, two (1907) 265 ft. high 40,000 gal. wood.

Pipe, 5 mi. 2½ to 4-in. iron; hyd. 16, hose con. 2½-in. Crane; valves, 60 r. h. thd. Crane; meters, 298 National; av. daily cons. 50,000 gal.; serv. con. 298; ord. pres. 52 to 118 lb., fire pres. same.

Rates: flat, none; meter, min. charge $1.25 300 cu. ft., 40c. 100 cu. ft.

DAVIS, 750.

DAVIS WATER CO.

Pres., S. D. Schmeiser.....Davis
Sec., B. R. Thrast..... "
Treas., J. P. Anderson..... "

Well, 12-in. 250 ft. deep; ¾ mi. from center distribution; no purification.

Pump, 1-267,000 gal. American driven by elec. motor, 15-hp. 250 v. 3 ph. Wagner; elec. energy from Pacific Gas & Elec. Co.; pumping direct & to elev. tank, 10,000 gal. wood.

Pipe, 2 mi. 5-in. w. & galv. i.; hyd. 8, hose con. 2½-in.; valves, 8 r. h. thd.; meters, 30 Neptune; serv. con. 160; ord. pres. 20 lb.

Rates; flat, $1.50 mo.

DEL MONTE.

Supplied by THE MONTEREY COUNTY WATER WORKS. See Monterey.

DILUDA, 970.

MUNICIPAL.

Pres. Trustees, C. N. Hopkins.....Diluda
City Clerk, Ralph Morton..... "
City Treas., C. P. Threlkeld..... "

Wells, 3 6-in.

Pumps, 3-576,000 gal. centrifugal d. con. to elec. motors, 30-hp., 1-720,000 gal. centrifugal d. con. to gasoline engine, 60-hp. Corliss; pumping to elev. tank, 60,000 gal. wood.

Pipe, 4 & 6-in.; hyd. 43, hose con. 2½-in.; ord. pres. 75 to 80 lb.

DIXON, 827.

PACIFIC GAS & ELECTRIC COMPANY. Main office, 445 Sutter St., San Francisco. For executive officers, see San Francisco.

District Mgr., C. E. Sedgwick.....Dixon

Wells, 2 10-in. 398 to 760 ft. deep; 1000 ft. from center distribution.

Boiler, 15-hp. donkey; hand stoking; pumps, 1-144,000 gal. Worth., 2 centrifugal American d. con. to elec. motor, 20-hp. 220 v. 3 ph. 60 cys. G. E.; pumping direct & to tanks, 2-50,000 gal. wood.

Pipe, 2.89 mi. w. i.; hyd. 23, hose con. 3-in. Garratt; valves, 6 r. h. thd. Crane; meters, 115 Neptune & Worth.; av. daily cons. 122,000 gal.; serv. con. 220; ord. pres. 28 to 32 lb., fire pres. 70 to 80 lb.

Rates; meter, min. charge $1 mo., 25c. 1000 gal. max., 10c. min.

DOWNEY, 1,000.

DOWNEY LIGHT, POWER & WATER CO.

Pres. & Mgr., I. R. Gordon.....Downey
V. Pres., I. H. Ardis..... "
Sec., F. H. Gordon..... "
Treas., Los Nietos Valley Bank.... "

DUNSMUIR, 1,719.

CALIFORNIA-OREGON POWER COMPANY. Office, 131 Leidesdorff St., San Francisco, Calif.

Pres., J. W. Churchill.....Yreka
Sec. & Gen. Mgr., Alex. J. Rosborough.....San Francisco
Treas., J. P. Churchill.....Yreka
Gen. Supt. & Pur. Agt., H. S. Walther..... Medford
Asst. Supt., O. G. Steele.....Yreka
Cons. Engr., Sidney Sprout...San Francisco

Shasto Springs; 2.5 mi. from center business section; no purification.

Gravity distribution from reservoir, 100,000 gal.

Pipe, 2.5 mi. 3 to 8-in. c. i.; hyd. 43, hose con. 2½-in. various; meters, none; serv. con. 373; ord. pres. 85 to 110 lb., fire pres. same.

Rates; flat, $1.50 mo. including bath & closet; meter, min. charge $1 mo. 5000 gal., 20c. 1000 gal. max., 10c. min.

DUTCH FLAT, 750.

DUTCH FLAT WATERWORKS. Owned by A. W. Nicholls.

Mgr., A. W. Nicholls.....Dutch Flat

Little Beaver River, springs & ditches of the Pacific Gas & Elec. Co.; 1.25 mi. from center distribution; no purification.

Gravity distribution from reservoir, 55,000 gal.; pipe, 0.5 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in.; valves, 3 r. & l. h. thd.; meters, none; av. daily cons. 20,000 gal.; serv. con. 50; ord. pres. 25 to 75 lb., fire pres. same.

Rates; flat, $1 mo.

EL CENTRO, 1,710.

MUNICIPAL.

Comr., C. N. Perry.....El Centro
City Clerk, Lavinia C. Northcott. " "
Supt., Chas. H. Field..... " "

Canal from Colorado River; settling basins, 8-5,000,000 gal.

Pumps, 2-576,000 gal. hor. centrifugal Krogh 1910 d. con. to elec. motor, 50-hp. 220 v. 3 ph. 60 cys. G. E. 1911, 2-1,440,000 gal. hor. centrifugal B. J. 1913 belted to gas engines, 40-hp. Sampson 1913; gasoline engines, 2-50-hp. ea. F. M. 1910; pumping direct & to elev. tank (1910) 100,000 gal. steel.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 165, hose con. 2½-in. Pittsburgh & Rensselaer; valves, 300 r. h. opening; meters, 30 Neptune; av. daily cons. 1,500,000 gal.; serv. con. 1096; ord. pres, 47 to 60 lb., fire pres. 47 to 80 lb.

Rates; flat, $3 quarter, bath 75c., closet 75c.; meters, min. charge $1.50 mo., 25c. 100 cu, ft. max., 12.5c. min.

ELK GROVE, 500.

IRA JONES, Owner.

Supt., Ira Jones.....Elk Grove

Well, 12-in. 280 ft. deep; 300 ft. from center distribution.

Pumps, 2-720,000 gal. B. J. & United driven by gasoline engine, 30-hp. Samson,

& elec. motor, 220 v. 3 ph. 60 cys. G. E.; pumping to tank (1893) 24 ft. in diam. 84 ft. high 50,000 gal. wood.

Hyd. 26, hose con. 2½-in.; valves, 12 r. h. thd.; meters, 5 National & Worth;. av. daily cons. 200,000 gal.; serv. con. 106; ord. pres. 40 lb., fire pres. 90 lb.

Rates: meter, min. charge $1.25 mo. 1000 gal., 20c. 1000 gal.

EMERYVILLE, 2,613.

System of the PEOPLES WATER CO. See Oakland.

ENCANTO, 1,000.

ENCANTO WATER CO.

Owner & Mgr.,
Harry R. Atwood.....Encanto

Mountain water taken from San Diego's main supply line; reservoir, 250,000 gal.

Pumps, 2-576,000 gal. F. M. & United driven by elec. motors, two 5 & 25-hp. G. E.; pumping direct, to reservoir above and tanks, five 70,000 gal. wood.

Meters, 330 Neptune & Thomson; av. daily cons. 100,000 gal.; serv con. 300; ord. pres. 50 to 90 lb.

Rates: flat, none; meter, 25c. 1000 gal.

ESCALON, 400.

ESCALON WATER & LIGHT CO.

Pres., J. H. Martin.....Escalon
Sec., H. L. McPherson..... "
Supt., O. N. F. Searey..... "

Well, 1-14-in. 190 ft. deep; 2 blocks from center distribution; no purification.

Pump, 1-460,000 gal. Woodin & Little belt connected to electric motor, 20-hp. 220 v. 3 ph. 60 cys. G. E.; current from Sierra & San Francisco Power Co.; pumping to elevated tank, 70 ft. high, 36,000 gal. wood.

Pipe, 2 mi. 4 to 12-in. iron; hyd. 30, hose con. 2½-in.; valves, 2 Woodin & Little; av. daily cons. 45,000 gal.; serv. con. 125; ord. pres. 70 lb., fire pres. same.

ESCONDIDO, 1,334.

MUNICIPAL.

Pres. Trustees, W. N. Bradbury..Escondido
City Clerk, N. H. Multon..... "
City Treas., H. E. Thompson..... "

Luis Rey River; 25 mi. from center business section; reservoir, 720,000 gal.

Gravity distribution from reservoirs, 1,-000,000 gal.; pipe, 4 & 6-in.; hyd. 11, hose con. 2½-in.; ord. pres. 45 to 50 lb.

EUREKA, 11,848.

MUNICIPAL.

Supt., O. W. Lord.....Eureka
City Engr., G. A. Strand..... "
Ch. Clerk, Homer C. Tennis..... "

Infiltration well near Elk River, 6x6 ft. 25 ft. deep; 5.5 mi. from center distribution; mech. filters, 3-1,500,000 gal.; chemical, sulphate of alumina.

Boiler, tubular 85-hp. Eureka; pumps, 1-1,000,000 gal. steam Knowles, 1-1,250,000 gal. Bow driven by elec. motor, 50-hp. 200 v. 3 ph. 60 cys.; elec. energy from Western States Gas & Elec. Co.; pumping to elev. tank, 2-1,000,000 gal. wood & 1-80,000 gal. steel.

Hyd. 185, hose con. 2½-in. R. D. W.; valves, 616; meters, 2038 Neptune, Thomson & Worth.; av. daily cons. 550,000 gal.; serv. con. 3399; ord. pres. 45 to 75 lb., fire pres. same.

Rates; flat, $1.25 mo., bath 25c., closet 25c., meter, 40c., 1000 gal. max., 20c. min.

EXETER.

MUNICIPAL.

Pres. Bd. Trustees,
George E. Waddell.....Exeter
Trustee, C. Kimball Crane..... "
" W. P. Ballard..... "
" C. L. Burnett..... "
" James Kirk..... "
City Clerk, Robert N. Richardson.... "
Supt. & Engr. P'g. Sta., L. C. Martin. "

Wells, 2 12-in. 152 ft. deep; near center business section; no purification.

Pumps, 2-1,368,000 gal. hor. Worth. d. con. to elec. motors, 2 35-hp. 2200 v. 2 ph. 60 cys. Crocker-Wheeler 1911; pumping to elev. tank (1911) 100,000 gal. steel, Des Moines Bridge & Iron Works.

Pipe, 11 mi. 2 to 10-in. iron; hyd. 44, hose con. 2-in. Kupferle; valve, r. h. opening Kupferle; meters, 400 Worth.; av. daily cons. 400,000 gal.; serv. con. 420; ord. pres. 57½ lb., fire pres. 100 lb.

Rates; flat, $1.25 mo.; meter, $1 mo. 854 cu. ft., 12c. 100 cu. ft.

FAIRFIELD, 524.

Ownership not reported.

City Clerk, F. L. Morrill.....Fairfield

Springs & impounding reservoirs, 3,000,-000 gal.; 5 mi. from center business section.

Gravity distribution from reservoirs, 500,-000 gal. concrete, and tanks, 5-5000 gal. wood.

Pipe, 6-in.; hyd. 5, hose con. 2½-in.; ord. pres. 38 to 40 lb.

FERNDALE, 105.

FRANCIS LAND & WATER CO.

Pres., B. A. Francis.....Ferndale
Sec., Lester Brite..... "

Springs & impounding reservoir, 1,000,000 gal.; ¼ mi. from center business section.

Pumps, 1-216,000 gal.; pumping to reservoir, above; gravity distribution from reservoir, 200,000 gal. & cisterns, 2-10,000 gal.

Pipe, 6 & 8-in.; hyd. 16, hose con. 2½-in.; ord. pres. 45 lb.

FOLSOM, 1,200.

NATOMAS WATER CO., Office 808 Alaska Commercial Bldg., San Francisco.

Gen. Mgr., Emery Oliver....San Francisco
Sec., P. C. Knapp..... " "
Supt., A. R. W. Sperry..... " "

American River, south fork, canal intake 20 mi. from center distribution; impounding reservoir, 1,500,000 gal. concrete.

Gravity distribution.

Pipe, 4 mi. 3 to 12-in. wood, steel & w. i.; hyd. 40, hose con. 2½-in.; valves, 30 r. & l. h. thd. various; meters, none; av. daily cons. 300,000 gal.; serv. con. 210; ord. pres. 20 to 55 lb., fire pres. same.

Rates, flat, $1.00 mo.

FOREST HILL, 650.

FOREST HILL WATER CO.

Supt. & Mgr., B. Finning.....Forest Hill

Mountain spring; 6000 ft. from center distribution; no purification.

Gravity distribution.

Hyd. 4; serv. con. 50.

Rates; flat, 50c. week; meter, none.

FORT BRAGG, 2,408.

FORT BRAGG WATER CO.

Supt., H. F. Milliken.....Fort Bragg

Springs; boilers, one and also steam supply from Union Lumber Co.; pumps, 1-1,008,000 gal. steam Worth. Underwriters', 1-720,000 gal. steam Worth.; pumping direct, and to reservoir, 500,000 gal.

Pipe, 3 to 5-in.; hyd. hose con. 2½-in.; ord. pres. 80 lb.

FORT JONES, 316.

Ownership not reported.

Wells; pumps, 1-288,000 gal. triplex, 1-180,000 gal. triplex; pumping to reservoir, 40,000 gal. concrete.

Pipe, 4-in.; hyd. 16, hose con. 2½-in.; ord. pres. 40 lb.

FORTUNA, 882.

FORTUNA WATER COMPANY.

Pres., R. R. Smith.....Fortuna
V. Pres., L. C. Morgan..... "
Sec., Geo. R. Lane..... "

Wells, tubular.

Pumps, 1-86,400 gal. Luitweiler belted to elec. motor, 220 v. 3 ph. 60 cys. G. E.; elec. energy from Western States Gas & Elec. Co.; pumping reservoir, 500,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 15, hose con. 2½-in.; meters, 42 Worth.; av. daily cons. 40,000 gal.; serv. con. 126; ord. pres. 80 lb.

Rates; flat, $1 mo., bath 25c., closet 25c.; meter, min. charge $1.25 mo., 45c. 1000 gal. max., 22.5c. min.

FRESNO, 24,892.

FRESNO CITY WATER CO. (Controlled by San Joaquin Light & Power Corpn., Los Angeles.)

Pres., W. G. Kerckhoff.....Los Angeles
V. Pres., A. C. Balch..... " "
Gen. Mgr., A. J. Wishon.....Fresno
Sec., W. E. Durfey..... "
Treas., Supt. & Pur. Agt., J. H. Newlin "

Wells, 31 10 & 12-in. 8 to 14 ft. deep; at various points throughout the city; no purification.

Pumps, 4-2,520,000 gal. ea. hor. centrifugal B. J., 3-1,560,000 gal. hor. centrifugal B. J., 1-1,560,000 gal. hor. centrifugal United Iron Wks., 3-2,520,000 gal. ea. hor. centrifugal Krogh, belted to elec. motors, 5-100-hp. ea., 2 75-hp. ea., 2 60-hp. ea. & 2-50-hp. ea., all 220 v. 3 ph. 60 cys. Westg.; elec. energy from San Joaquin Light & Power Co.; pumping direct & to elev. tank, 235,000 gal. steel.

Pipe, 90.9 mi. 4 to 12-in. w. i.; hyd. 303; meters, 141; serv. con. 614; ord. pres. 35 to 55 lb., fire pres. same.

Rates; flat, 70c. mo., bath 20c., closet 20c.; meters, min. charge $1 mo., 25c. 1000 gal. max., 9c. min.

FULLERTON, 1,725.

FULLERTON DOMESTIC WATER COMPANY. Office, 111 W. Fourth St., Los Angeles.

Mgr., D. M. Boyd.....Los Angeles

Wells, 2400 ft. deep.

Pumps, one deep well Addison driven by elec. motor, 30-hp. 440 v.; 1-1,080,000 gal. centrifugal belted to elec. motor, 75-hp. 440 v.; air compressor, one; pumping to elev. tank, 40,000 gal. steel & tanks, 2-60,000 gal. wood.

Pipe, 2 to 8-in.; hyd. 29, hose con. 2½-in.

GILROY, 2,437.

MUNICIPAL.

Mayor, A. A. Martin.....Gilroy
City Clerk, E. L. Rogers..... "
City Treas., Henry Hecker..... "

Wells & impounding reservoir; 9 mi. from center distribution.

Pumps, 1-720,000 gal. steam duplex Worth., 1-1,440,000 gal. steam; pumping to reservoir, 4,000,000 gal.

Pipe, 4 to 13-in.

GLENDALE, 2,746

MUNICIPAL.

Mgr., H. D. Lynch.....Glendale
City Engr., Edward M. Lynch..... "

The Title Guarantee & Trust Co. has sold practically all of their distributing system to the city. No further data available.

GLENDORA, 900.

MUNICIPAL.

Pres. Trustees, A. E. Englehardt..Glendora
Trustee, J. J. West..... "
" G. B. Gordon..... "
" C. A. Hammond..... "
" W. W. Wilson..... "
City Clerk, K. M. Suydam..... "
Supt. & City Engr., F. G. Dessery
514 Central Bldg., Los Angeles
Cons. Engr., Geo. S. Binckley
514 Central Bldg., Los Angeles
Engr. P'g. Sta., Mr. Bradley.....Glendora

Wells, 20-in. 535-ft. deep; 1.5 mi. from center distribution; no purification.

Pumps, 1-1,000,000 gal. vertical centrifugal Layne & Bowler belted to oil engines, 120-hp. Diesel Snow 1915; pumping to reservoir, 1,000,000 gal. & standpipe (1915).

Pipe, 14 mi. 2 to 8-in. steel; hyd. 20, hose con. 2½-in. various; valves, 75 r. h. opening

various; meters, 500 various; av. daily cons. 300,000 gal.; serv. con. 500; ord. pres. 40 to 70 lb., fire pres. same.

Rates; meter, min. charge $1 year, $1.75 100 cu. ft.

GRASS VALLEY, 4,520.

MUNICIPAL.

Mayor, J. P. Conway.....Grass Valley
City Clerk, C. H. Barker..... " "
City Treas., A. H. Mooser..... " "

Spaulding Lake by way of the ditch system of the South Yuba Ditch Company.

Gravity distribution from reservoirs, 2-2,500,000 gal.; pipe, 4 to 22-in. c. i. and riveted steel.

GRIDLEY, 987.

MUNICIPAL.

Chm. Coms., C. A. Moore.....Gridley
Supt., E. P. Fagan..... "

Wells, 2 10-in. 200 ft. deep.

Boilers, 1 tubular 100-hp. Ames; fuel oil; pumps, 1 triple expansion duplex 720,000 gal., 1 turbine duplex 1,224,000 gal. Goerz; elec. motor, 50 kw. 2300 v. 3 ph. 60 cys. G. E.; pumping to elevated tank, 104 ft. high 60,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i. & w. i.; hyd. 40, hose con. 2½-in. Rensselaer; valves, 28 r. h. thd. Rensselaer; meter, 250 Neptune av. daily cons. 300,000 gal.; serv. con. 300; ord. pres. 38 to 40 lb., fire pres. 80 to 160 lb.

Rates: meter, min. charge 75c., 10c. 1000 gal., max., 8c. min.

GUADALUPE, 480.

PRIVATELY OWNED.

Supt., S. Campodonin.....Guadalupe

Artesian wells, 2 3 & 4-in. 110 ft. deep; no purification.

Pumps, 2-centrifugal 7½-hp.; pumping to tank, 43 ft. high 40,000 gal. wood.

Pipe, 3-in. galv. i.; hyd., hose con. 2-in.; av. daily cons. 20,000 gal.; serv. con. 100; ord. pres. 19 to 28 lb., fire pres. same.

Rates: flat, $1.50 mo.

HAMILTON, 450.

SACRAMENTO VALLEY SUGAR CO.

Gen. Mgr., A. M. Gelston.....Hamilton
Supt., E. R. Fricht..... "

Wells, 2-8-in. 90 ft. deep; 2000 ft. from center distribution; no purification.

Pumps, 2 triplex B. J. & Deming; belted to gasoline engine, 8-hp. Samson and elec. motor 220 v. 3 ph. 60 cys. G. E.; pumping direct and to tank, 10,000 gal. steel.

Pipe, ¼ mi. 4 to 12-in. steel; hyd. 20, hose con. 2½-in. Crane; valves, 20 r. h. thd. Crane; meter, 1; serv. con. 105; ord. pres. 33 to 35 lb., fire pres. 80 lb.

HANFORD, 4,825.

MUNICIPAL.

Pres. Trustees, P. H. Coe.....Hanford
City Clerk, C. P. Williams..... "
City Treas., F. R. Hight..... "

Wells, 3 tubular; reservoir, 75,000 gal. concrete.

Pumps, 1-1,440,000 gal. steam Worth., 1-1,440,000-gal. steam F. M. Underwriters'; pumping to elev. tank, 3-300,000 gal.

Pipe, 6 & 8-in.; hyd. 29, hose con. 2½-in.; ord. pres. 50 lb.

THE HANFORD WATER COMPANY.

Sec., F. N. Isaacs.....Hanford

This company is interested in irrigation mainly but owns the elev. tanks of the above municipal system.

HAYWARD, 3,500.

SAN LORENZO WATER CO.

Pres., F. G. Wight.....Hayward
Sec., Chas. M. Whitney..... "
Asst. Sec., F. J. Hurley..... "
Cons. Engr., Geo. L. Dillman.... "
Ch. Engr. P'g. Sta.,
Gus Macquart, Sr..... "

Artesian wells, 3 8 to 12-in. 400 ft. deep; 4½ mi. from center distribution.

Boilers, 2 hor. tubular 75 & 80-hp. Fulton & Kewanee; oil burners; pumps, 2 compound duplex, 720,000 gal. Dow; pumping direct and to reservoir, 516,000 gal.

Pipe, 21 mi. ¾ to 10-in. iron; hyd. 52, hose con. 2½-in.; valves, 22 r. h. thd.; meters, 12 various; av. daily cons. 537,000 gal.; serv. con. 1376; ord. pres. 10 to 80 lb., fire pres. 50 to 80 lb.

Rates: flat, $1.55 mo., bath 35c., closet 30c.

HEALDSBURG, 2,011.

MUNICIPAL.

Pres. Trustees, A. F. Stevens...Healdsburg
City Clerk, E. D. Eddy..... "
City Treas., L. J. Hall..... "

Wells, 3 40 ft. deep; reservoirs, 2-540,000 gal.

Pumps, 1-720,000 gal. Dow belt driven from elec. motor, 30-hp. or steam engines, 1-1,200,000 gal. triplex Platt driven by elec. motor, 50-hp.; pumping direct.

Pipe, 4 to 10-in.; hyd. 48; ord. pres. 65 lb.

HEMET, 992.

Ownership not reported.

North Fork of San Jacinto River & Strawberry Creek; 9 & 12 mi. from center business section.

Gravity distribution; pipe, 4 to 13-in.; hyd. 27, hose con. 2-in.; ord. pres. 70 lb.

HIGHLAND, 1,996.

HIGHLAND DOMESTIC WATER CO.

Mgr., J. F. Browning.....Highland

Well, 105 ft. deep; 1.5 mi. from center distribution.

Pumps, 1-302,400 gal. Luitweiler, 1-144,000 gal. Luitweiler both driven by elec. motor, 20-hp., 1-415,000 gal. deep well Pomona; pumping to reservoir, 325,000 gal.

Pipe, 4 & 6-in. riveted steel; hyd. 68, hose con. 2½-in.; ord. pres. 80 to 85 lb.

HILLSBORO, 900.

CHERRY CANON WATER CO.

Pres. John A. Hoey.....Hillsboro
Sec., George H. Howard..... "
Cons. Engr., George Schussler.... "
Supt., Jesse Penton..... "

Purchase water from Spring Valley Water Co., see San Francisco; mechanical filters, 3.

Gravity distribution.

Pipe, 2 mi. 4 to 12-in. w. & c. i.; hyd. 13, hose con. 2½-in.; meters, 40 various; av. daily cons. 80,000 gal.; serv. con. 40; ord. pres. 45 to 80 lb., fire pres. same.

Rates: meter, min. charge $1.50 mo., 30c. 1000 gal.

HOLLISTER, 2,308.

HOLLISTER WATER COMPANY.

Pres., M. B. Briggs.....Hollister
Sec. & Mgr., B. W. Hawkins..... "

Artesian wells; 12 mi. from center business section; reservoir, 450,000 gal.

Pumps, 1-1,440,000 gal. steam Worth., 1-1,440,000-gal. centrifugal American; pumping to reservoir, 2-600,000-gal.

Pipe, 4 to 8-in.; ord. pres. 40 lb., fire pres. 80 lb.

HOLLYWOOD, 1,400.

UNION HOLLYWOOD WATER CO. OFFICE, 212 LAUGHLIN BLDG., LOS ANGELES.

Mgr., W. E. Wern.....Los Angeles

Wells, 8.

Pump, 4,500,000 gal.; pumping direct & to reservoir, 5,000,000 gal.

Pipe, 4 to 27-in. riveted steel; hyd., hose con. 2½-in.; av. daily cons. 2,250,000 gal.; ord. pres. 45 to 50 lb.

HOLTVILLE, 729.

MUNICIPAL.

Pres. Trustees, F. K. Weeks.....Holtville
City Clerk, L. P. Main..... "
City Treas., R. B. Webster..... "
Supt., Charles H. Field..... "

Colorado River thru canal & ditches of the Imperial Valley Irrigation system and artesian wells, 2 2&4-in.; settling basins, 2-300,000 gal. ea.

Pumps, 1-864,000 gal. duplex F. M. driven by gasoline engines, 40-hp. F. M.; pumping direct & to elev. tank, 50,000 gal. steel.

Pipe, 3 to 12-in.; hyd. 23, hose con. 2½-in.

HUNTINGTON BEACH, 815.

HUNTINGTON BEACH COMPANY.

V. Pres. & Mgr.,
H. L. Heffner.....Huntington Beach
Acct., H. V. Anderson... " "

Wells, 4 7 to 12-in., 110 to 130 ft. deep; one mi. from center distribution.

Pumps, 3 centrifugal 1,750,000 gal. one B. J. & 2 United; gas engine, 60-hp. Western; elec. motors, 2 440 v. 3 ph. 50 cys. Westg.; pumping direct and to reservoir, 1,173,000 gal.

Pipe, 22.3 mi. 4 to 12-in. c. i.; hyd. 93, hose con. 2-in.; valves, 100; meters, 300; Worth.; av. daily cons. 175,000; serv. con. 502; ord. pres. 42 to 48 lb., fire pres. 48 to 50 lb.

Rates: flat, $1.00 mo., bath & closet 25c.; meter, min. charge $1.00 mo. 500 cu. ft., 10c. 100 cu. ft. max., 6c. min.

IMPERIAL, 1,257.

MUNICIPAL.

Mayor & Pres. Bd. Trustees,
W. V. Dutcher.....Imperial
Trustees, W. Bathrick..... "
" F. V. Waters..... "
" C. W. Fernold..... "
" Geo. W. Donley..... "
City Clerk, Miss Lelia Foster..... "
Supt., T. E. Manning..... "

Colorado River, ½ mi. from center distribution; settling basin, 7500 sq. ft.

Pumps, 1-720,000 gal. Risdon Sulzer; belt connected to elec. motor, 3 ph. 60 cys. Westg.; pumping direct and to elevated tank, 100 ft. high, 100,000 gal. steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 36, hose con. 2½-in. Keystone; valves, 25 r. h. thd. Crane; meters, 30 Neptune; av. daily cons. 150,000 gal.; serv. con. 375; ord. pres. 25 to 43 lb., fire pres. 45 to 70 lb.

Rates: flat, $1.00 mo., bath 25c., toilet 25c.; meter, min. charge $1.50, 25c. 100 cu. ft. max., 20c. min.

INGLEWOOD, 1,536.

INGLEWOOD WATER COMPANY.

Pres., Chas. Lloyd.....Inglewood
V. Pres., James Cook..... "
Auditor, Henry Lee Martin..... "
Sec., A. O. Martin..... "
Supt., J. Warren Lane..... "

Wells, 200 to 300 ft. deep; 2000 ft. from center distribution; no purification.

Boilers, 2 tubular 40 & 80-hp. Kewanee & Ames; fuel oil; pumps, air lifts from wells, 1 triplex 1,440,000 gal. d. con. to steam engine, 140-hp. Vilter Corliss; one duplex 1,440,000 gal. Worth., driven by elec. motor, 35 kw. 2200 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 1,250,000 gal.

Pipe, 17 mi. 4 to 12-in. steel; hyd. 9, hose con. 2½ & 3-in.; meters, 1600 Neptune; av. daily cons. 1,000,000 gal.; serv. con. 1600; ord. pres. 20 to 90 lb., fire pres. 35 to 40 lb.

Rates: flat, none; meter, min. charge $1.00 mo. 500 cu. ft., 10c. 100 cu. ft.

JACKSON, 2,025.

MUNICIPAL

Pres. Trustees, V. S. Darbarini.....Jackson
City Clerk, E. M. Kelley..... "
City Treas., T. L. Tulbert..... "

Supply taken from the ditches of the Blue Lake Water Co.

Gravity distribution from tanks, 2-30,000 gal. ea. wood; pipe, 2 to 11-in.; hyd. 156, hose con. 1½ & 2½-in.; ord. pres. 80 lb.

JAMESTOWN, 650.

SIERRA & SAN FRANCISCO POWER CO. Office, 85 Second St., San Francisco.

For executive officers, see Sonora. (Controlled by United Railways Investment Co., 25 Broad St., New York, N. Y.)
Local Mgr., W. F. King.....Sonora
For supply and method of distribution, see Sonora.
Hyd. 12, hose con. 2½-in. Garrett; valves, 2 r. h. thd.; serv. con. 82; ord. pres. 40 to 62 lb., fire pres. same.
Rates; see Tuolumne.

KENNETT, 1,200.
KENNETT WATER COMPANY.
Pres., Chas. Butters.....Kennett
V. Pres., Chauncey S. Goodrich... "
Mgr., Sec. & Treas.,
Sidney M. Stone..... "
Supt., Lewis E. Hume..... "
Big Backbone Creek; 5 mi. from center distribution.
Pumps, 248,000 gal. Goulds; Pelton wheel; elec. motors, 2-220 & 440 v. 3 ph. 60 cys. Wagner; pumping to reservoir, 500,000 gal.
Pipe, 2¾ mi. 4 to 12-in. iron; hyd. 27, hose con. 2½-in. Crane; valves, 38 r. h. thd. Crane; av. daily cons. 125,000 gal.; serv. con. 225; ord. pres. 40 to 90 lb., fire pres. same.

KERN, 1,500.
Ownership not reported.
Wells, on opposite sides of the town.
Boilers, use oil fuel; pumps, 2-1,440,000 gal. steam duplex Worth.; pumping direct & to elev. tanks, 2-50,000 gal. wood.
Pipe, 4 to 10-in.; hyd., hose con. 2½-in.; ord. pres. 25 lb.

KING CITY, 1,000.
COAST VALLEYS GAS & ELECTRIC CO. Office, 58 Sutter St., San Francisco. (Controlled by United Railways Investment Co., 25 Broad St., New York.)
Pres., C. N. Black.....San Francisco
V. Pres. & Gen. Mgr.,
H. F. Jackson..... " "
Sec. & Treas., F. J. Blanchard " "
Pur. Agt., L. C. Hilfrick..... " "
Cons. Engr.,
J. E. Woodbridge..... " "
Supt. & Ch. Engr. P'g. Sta.,
A. M. Armstrong.....King City
Well, 1 6-in. 100 ft. deep; 1½ mi. from center of town; no purification.
Boilers, 2 hor. tubular 80-hp. Kewanee; oil burners; pumps, 1 382,000 gal. American, 1 432,000 gal. Krogh; d. con to elec. motors, 2 15 & 19 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to tank, 50 ft. high 50,000 gal. wood.
Pipe, 1.35 mi. 4 to 12-in. steel & hyd. 22, hose con. 2½-in. Garratt; valves, 2 r. h. thd. Crane; meters, none; av. daily cons. 157,000 gal.; serv. con. 168; ord. pres. 40 to 60 lb., fire pres. 90 to 125 lb.
Rates: flat, $1.50 mo.; meter, none.

LA CRESCENTA, 150.
MUTUAL WATER CO.
Pres., H. D. Johnson.....La Crescenta
Sec. & Treas., Jos. Hawkins.. " "
Ch. Engr. P'g. Sta.,
C. J. Andersen..... " "
Infiltration gallery 620 ft. long in Sierra Madera mountains; 2 mi. from center distribution; no purification.
Gravity distribution from impounding reservoir, 80,000 gal.; meters, 42 mostly Pittsburgh; av. daily cons. 64,000 gal.; serv. con. 42.
Rates: meter, 50c. 1000 gal. max., 15c. min.

LA GRANGE, 237.
YOSEMITE POWER COMPANY. (La Grange Division.)
Pres., Treas. & Gen. Mgr.,
John Coffee Hays.....Visalia
Supt., E. F. McCarter.....La Grange
Small gravity system in connection with the power plant.

LEMOORE, *2,000.
MUNICIPAL.
Pres. Trustees, J. H. Brothers.....Lemoore
City Clerk, L. L. Follett..... "
City Treas., E. Mertz..... "
Artesian wells; reservoir, 35,000 gal.
Pumps, 1-432,000 gal. steam duplex Worth., 1-720,000 gal. centrifugal Price d. con. to elec. motor, 20-hp.; pumping to elev. tank, 75,000 gal. steel, & direct for fires.
Pipe, 3 to 6-in.; hyd., hose con. 2½-in.; ord. pres. 35 lb.

LINCOLN, 1,402.
Supplied by the Placer Water District of the Pacific Gas & Elec. Company. See Placer Water District. For executive officers, see San Francisco.

MUNICIPAL.
Comr., Walter Jansen.....Lincoln
" R. P. Dixon..... "
" Marcus Thomsen..... "
" W. M. Sparks..... "
" H. S. Williamson..... "
Supt., C. L. Hotchkiss..... "
South Yuba River; 2.5 mi. from center business section; settling basins, 3.
Gravity distribution from reservoirs, 3-5,000,000 gal.; pipe, 6 mi. 4 to 8-in. c. & w. i.; hyd. 60, hose con. 2½-in. U. S. Rubber Co.; meters, 5; av. daily cons. 1,000,000 in.; serv. con. 390; ord. pres. 70 to 85 lb.
Rates; flat, $1 mo.; meter, 5c. 1,000 gal.

LINDSAY, 1,814.
MUNICIPAL.
Mayor, R. N. Graham.....Lindsay

LIVERMORE, 2,030.
PACIFIC GAS & ELEC. COMPANY. Office, 445 Sutter St., San Francisco. For executive officers, see San Francisco.

District Mgr., F. A. Leach, Jr..Livermore.

Arroyo Mocho Creek & wells, 10 12-in. & one 12 ft. in diam. 47 to 53 ft. deep; 2 mi. from center distribution.

Pumps, 3-3,250,000 gal. Price, Deane & B. J. belted to elec. motors, 2 22.3 kw. & one 18.5 kw. 2000 v. 3 ph. 60 cys. G. E.; elec. energy from the hydro-electric plant of the Pacific Gas & Elec. Co.; pumping direct & to reservoir, 423,000 gal. concrete.

Pipe, 22.8 mi.; hyd. 35, hose con. 4-in. Garratt; valves, 35 1. h. thd. Garratt; meters, 445 National, Thomson & Worth.; av. daily cons. 239,500 gal.; serv. con. 493; ord. pres. 40 to 50 lb., fire pres. same.

Rates; meter, min. charge 35c. mo., 20c. 1000 gal. max., 15c. min.

LODI, 2,697.

MUNICIPAL.

Pres., F. O. Hale.....Lodi
Chm. Comrs., C. A. Black..... "
Supt., John A. Henning..... "

Wells, 4 8 & 12-in. 100 to 183 ft. deep; no purification.

Pumps; one B. J. belted to gas engine, 100-hp. Samson, 2 B. J. & one Krogh d. con. to elec. motors, 2 35 & 75-hp. 2200 v. 3 ph. 60 cys. G. E. & one 40-hp. 220 v. 3 ph. 60 cys. Westg.; pumping to standpipe (1911) 22 ft. diam. 130 ft. high, steel.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 90, hose con. 2½-in. Rensselaer; valves, 40 Crane; meters, 4 various; av. daily cons. 1,440,000 gal.; serv. con. 800; ord. pres. 38 to 52 lb., fire pres. same.

Rates: flat, $1.50 mo.; meter, 15c. 1000 gal.

LOMPOC, 1,482.

MUNICIPAL.

Mayor, A. C. Whitemore.....Lompoc
Supt., C. A. Reed..... "

Creek; 5 mi. from center distribution; no purification.

Gravity distribution from reservoir, 100,000 gal.

Pipe, 7 mi. 4 to 12-in. steel; hyd. 28, hose con. 2½-in. Kupferle; valves, 36 r. h. thd. Kennedy; meters, none; serv. con. 435; ord. pres. 80 to 110 lb., fire pres same.

LONG BEACH, 17,809.

LONG BEACH WATER COMPANY.

Supt., W. Sigenby.....Long Beach

Artesian wells; 3 mi. from center business section.

Pumps, 2-2,818,000 gal. steam duplex, 1-2,945,000-gal. centrifugal driven by elec. motor, 2-1,680,000 gal. steam duplex; pumping direct & to reservoirs, 3-2,750,000 gal.

Pipe, 4 to 16-in. c. i. & riveted steel; hyd., hose con. 2½ to 4-in.; av. daily cons. 4,500,000 gal.; ord. pres. 22 to 33 lb.

ALAMITOS BEACH WATER CO.

Supplies section of residence district.

Pumps, 6,250,000 gal.; pumping to reservoirs, 2-3,300,000 gal.

Pipe, 4 & 8-in.; hyd. 12, hose con. 2½ to 4-in.; ord. pres. 65 lb.

LOOMIS, *450.

Supplied by the Placer Water District of the Pacific Gas & Elec. Company. See Placer Water District. For executive officers, see San Francisco.

LORDSBURG, 954.

MUNICIPAL.

Pres. Trustees, Arthur Dilworth. Lordsburg
City Clerk, Walter E. Bailey.... "
City Treas., J. L. Miller..... "

Wells, 2 190 ft. deep.

Pumps, 2-187,000 gal. Luitweiler, 1-504,000 gal. centrifugal, pumping direct, to reservoir, 190,000 gal. & standpipe, 6000 gal.

Pipe, 4 to 8-in.; hyd., 54, hose con. 2½-in.; ord. pres. 30 to 50 lb.

LOS ANGELES, 319,198.

MUNICIPAL.

Has taken over the water system of San Pedro & Wilmington, which are in the harbor district of Los Angeles. See San Pedro.

Pres. Comrs., F. G. Henderson. Los Angeles
Comr., John W. Kent..... " "
" R. D. Wade..... " "
" R. F. Valle..... " "
Ch. Engr., Wm. Mulholland.... " "
Div. Supt., Thomas Brooks.... " "
Ch. Mechanical Engr.,
Fred J. Fischer..... " "
Supt. Meter Serv., Geo. Read.. " "

Los Angeles River; 8 mi. from center business section; Pomeroy & Hooker well, about 7.5 mi. from center business section; Crystal Spring diversion on the Los Angeles River & wells, 6 air lift; 6.5 mi. from center business section; Bollock wells, 5 about 2.5 mi. from center business section; Narrows infiltration gallery; Slauson well, 6 air lift, 4.75 mi. from center business section; Figueroa wells, 4 air lift about five mi. from center business section; lakes, 242 mi. from center business section.

Buena Vista Sta.: boilers, 2 water-tube 250-hp. ea. Sterling, 2 watertube 300-hp. ea. Sterling; pumps, 2-7,000,000 gal. hor. comp. duplex Risdon, 1-7,000,000 gal. hor. comp. duplex Snow. Slauson Ave. Sta.: boilers, 2 water-tube 300-hp. each. Sterling; pumps, 1-4,000,000 gal. hor. comp. duplex Risdon, 1-2,500,000 gal. hor. tri. exp. duplex Worth.; air compressor, 3000 cu. ft. L-D-G. Figueroa Sta.: boilers, 2 water-tube 250-hp. ea. Sterling; pumps, 1-4,000,000 gal. hor. comp. duplex Monarch, 1-4,000,000 gal. hor. tri. exp. Worth.; air compressor, 1500 cu. ft. comp. duplex L-D-G. Garvanza Sta.: boilers, 2 fire-tube 75-hp. ea. F. M.; pumps, 1-2,200,000 gal. hor. tri. exp. duplex Prescott, 1-400,000 gal. vert. triplex Rumsey, 1-488,000 gal. vert. triplex Goulds. Edendale Sta.: boilers, 2 hor. return tubular 125-hp. ea. Edendale; pumps, 1-1,300,000 gal. hor. tri. exp. duplex Edendale, 1-360,000

gal. hor. comp. duplex Worth. Pomeroy Hooker Sta.: boilers, 3 hor. return tubular 100-hp. ea. Union; air compressor, one 1500 cu. ft. comp. duplex L-D-G, one 2500 cu. ft. comp. duplex L-D-G. Crystal Spring Sta.: boilers, 3 hor. return tubular 150-hp. ea. Atlas; air compressor, one 2000 cu. ft. duplex L-D-G. Wilmington Sta.: boilers, 2 water-tube 250-hp. ea. Sterling, 2 fire-tube 100-hp. ea. Atlas; pumps, 1-4,000,000 gal. hor. comp. duplex Allis-C, 2-800,000 gal. ea. comp. duplex Worth.; air compressor, one c. & f. wh. simplex L-D-G, one c. & f. wh. simplex Blake; pumping to reservoirs, 12-943,215,342 gal. & tank, 1-593,000 gal. steel.

Pipe, 111.5 mi. 4 to over 30-in.; hyd. 3690, hose con. 2½ to 4-in.; meters, 54,203 various; av. daily cons. 46,000,000-gal.; serv. con. 79,167; ord. pres. 20 to 130 lb.

HAWTHORNE WATER COMPANY.
Pres. & Mgr., Wm. R. Parker..Los Angeles
Cons. Engr., B. E. Trask..... " "

Wells, 3 16-in. 135 to 350 ft. deep; no purification.

Pumps, 3 B. J., United & Luitweiler driven by gasoline engine, 1250-hp. Lambert & Stover; elec. motor, 50-hp. ea. 220 v. 3 ph. 60 cys. Allis-C. & F. M.; elec. energy from Southern California Edison Co.; pumping direct & to elev. tank, 100,000 gal. wood.

Pipe, 15 mi. 4 to 12-in.; hyd. 25; valves, Crane; meters, 250 mostly National; serv. con. 1000; ord. pres. 35 lb., fire pres. 45 lb.

Rates; meter, $1.40 800 cu. ft., 11.5c. 100 cu. ft.

MIDLAND COUNTIES PUBLIC SERVICE CORP. Office, 805 Garland Bldg.
Pres., A. C. Balch.....Los Angeles
V. Pres., Wm. G. Kerckhoff.... " "
V. Pres., Kasper Cohn..... " "
Treas. & Compt., A. E. Peat... " "
Sec., L. M. Farnham..... " "

Has acquired the property of the Russell Robinson Water & Light Co., supplies Arroyo Grand; Paso Robles Light & Water Co., supplies Paso Robles.

SAN JOAQUIN LIGHT & POWER CORPORATION. Office, 805 Garland Bldg. Owns Fresno City Water Co., supplies Fresno. For officers, see Fresno. Is controlled in same interests as Midland Counties Public Service Corp. above.

FULLERTON DOMESTIC WATER COMPANY. Office, 111 West 4th St. Supplies Fullerton.

UNION HOLLYWOOD WATER CO. Office, 212 Laughlin Bldg. Supplies Hollywood.

REDONDO WATER CO. Office, 728 Pacific Electric Bldg. Supplies Redondo.

SAWTELLE WATER COMPANY. Office, 802 Ferguson Bldg. Supplies Sawtelle.

TORRANCE WATER, LIGHT & POWER COMPANY. Office, 111 West 4th St. Supplies Torrance

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WILLIAMS WATER & ELECTRIC CO. Office, 911 Trust & Savings Bldg. Supplies Williams, Ariz.

LOS CANOS, 745.

LOS CANOS WATERWORKS. (Ownership not reported.)

San Joaquin River.

Pumps, 1-720,000 gal. duplex Deane driven by elec. motor, 25-hp., 1-504,000 gal. steam Marsh, 1-360,000 gal. steam Hooker; pumping to elev. tank, 50,000 gal. steel & 2-20,000 gal. wood.

Pipe, 4 & 6-in.; hyd. 28, hose con. 2½-in.; ord. pres. 35 lb.

LOS GATOS, 2,332.

Supplied by San Jose Water Company. See San Jose.

LOYALTON, 983.

ROBERTS LUMBER CO.
Supt., O. G. Hopkins.....Loyalton

Springs; 2 mi. from center distribution; no purification.

Gravity distribution from reservoir, 15,000 gal.

Pipe, 5 mi. 4 to 12-in. steel; hyd., hose con. 2½-in.; valves, 8; meters, none; av. daily cons. 5500 gal, serv. con. 75; ord. pres. 30 to 45 lb., fire pres. 60 to 80 lb.

McCLOUD, *2000.

MCCLOUD WATERWORKS. (Ownership not reported.)

Large pond & tank, 13,000 gal. fed by flume from creek.

Pumps, 2-2,160,000 gal. Underwriters'; pumping direct.

Pipe, 4 to 10-in.; hyd., hose con. 2-in.; ord. pres. 90 lb., fire pres. 150 lb.

MADERA, 2,404.

MUNICIPAL.
Supt., O. C. Owens.....Madera
Cons. Engr., P. M. Stafford..... "
Collector, H. M. Cunningham..... "

Wells, 6 12-in. 46 to 152 ft. deep; 2 blocks from center distribution.

Boiler, one hor. 125-hp. Keeler; oil fuel; pumps, 2-720,000 gal. ea. B. J., one 1,080,000 gal. B. J., one 1,440,000 gal. American; gas engine, 1-75-hp. Doak; steam turbine, 125-hp. Curtis; elec. generator, a. c. 75 kw.; elec. motors, 2 75-hp. 2200 v. 19 amps. 3 ph. 60 cys. G. E., one 50-hp. 2200 v. 13 amps. G. E.; pumping to reservoir (1911) 21½ ft. in diam. 132 ft. high 80,000 gal. steel.

Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in Valley; av. daily cons. 500,000 gal.; serv. con. 490; ord. pres. 40 to 57 lb., fire pres. 80 to 110 lb.

MANCHESTER HEIGHTS, 500.
OWNED BY W. G. WADLEY.
Supt., W. G. Wadley..Manchester Heights
Well, one 12-in. 350 ft. deep ¼ mi. from center distribution.
Elec. motor, one 35-hp. F. M. pumping to elevated tank, 30 ft. high 25,000 gal. wood.
Pipe, 4 mi. 4 to 12-in. steel; hyd. hose con. 2-in.; meters, 10 Neptune; av. daily cons. 100,000 gal.; serv. con. 185; ord. pres. 15 lb., fire pres. same.
Rates: flat, $1.00 mo.; meter, min. charge $1.00 mo. 1000 cu. ft., 10c. 100 cu. ft.

MARTINEZ, 2,115.
PORT COSTA WATER CO. Supplies Concord, Crockett, Fairview, Port Costa, Selby & Tormey.
Mgr., E. H. Sibley.....Martinez
Artesian wells, 7; reservoir, 400,000 gal.
Pumps, 1-1,440,000 gal. centrifugal B. J. d. con. to elec. motor, 55-hp. Westg., 1-1,800,000 gal. triplex Deane belted to elec. motor, 100-hp. Westg.; pumping direct.
Pipe, 4 to 18-in.; hyd. 35, hose con. 2½-in.; ord. pres. 40 lb., fire press. 50 lb.

MARYSVILLE, 7,000.
THE MARYSVILLE WATER CO.
Pres., A. G. Bingham.....Marysville
Sec., A. C. Hayes..... "
Wells, 6 12 & 16-in. 90 to 315-ft. deep; at center distribution.
Pumps, 1-1,440,000 gal. Dow driven by elec. motor, 50-hp. 220 v. 3 ph. 60 cys. Westg., 1-2,400,000 gal. Clow driven by elec. motor, 75-hp. 220 v. 3 ph. 60 cys. Westg.; elec. energy from Pacific Gas & Elec. Co.; pumping to elev. tank (1888) 200,000 gal. iron.
Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 43; valves, 370 Crane; meter, 36 various; av. daily cons. 906,000 gal.; serv. con. 1171; ord. pres. 30 lb., fire pres. same.

MAYFIELD, 1,041.
MUNICIPAL.
Mayor, C. Freeman.....Mayfield
Trustee, George Cell..... "
" J. Orr..... "
Town Clerk, C. Wright..... "
Supt. & Engr. P'g. Sta., L. Hight.. "
Wells, 3 10-in. 212-ft. deep; ¼ mi. from center business section.
Boilers, 2 hor. 60-hp. ea. 105 lb. Murray 1904; pumps, 2-576,000 gal. vert. centrifugal B. J. 1904 & 2-576,000 gal. hor. centrifugal B. J. 1904 belted to steam engines, 75-hp. Corliss Murray 1904; pumping to reservoir, 254,000 gal.
Pipe, 7 mi. 2 to 8-in. c. & galv. i.; hyd. 32, hose con. 2½-in. United; valves, 30 r. h. opening Crane; meters, 200 Neptune & Worth.; av. daily cons. 150,000 gal. 90%; serv. con. 329; ord. pres. 45 lb., fire pres. 45 to 100 lb.
Rates; meter, min. charge $1 mo. 5000 gal., 20c. 1000 gal. max., 10c. min.

MENDOCINO, 1,009.
MUNICIPAL. For fire protection only.
Supt., J. S. Ross.....Mendocino
Comr., F. A. Stickney..... "
Sec., Albert Brown..... "
Ch. Fire Dept., J. L. Dodge.... "
Wells, 6 12-ft. deep; no purification.
Pumps, 1-720,000 gal. Epping-Carpenter driven by gasoline engine 8-hp. Harvester; pumping to reservoirs, 100,000 gal. & elev. tank, 25,000 gal. wood.
Hyd. 14; valves, 3 r. h. thd.; ord. pres. 65 lb.

MENLO PARK, 820.
BEAR GULCH WATER CO. Office, 452 Mills Bldg., San Francisco.
Pres., E. M. Felton.....San Francisco
Sec., P. H. McGrath..... " "
Bear Gulch Creek & wells.
Pumps, 1-375,000 gal. driven by elec. motor; pumping to reservoir, 25,000,000 gal.
Pipe, 6 to 20-in.; ord. pres. 70 lb.

MERCED, 3,102.
CROCKER-HUFFMAN LAND & WATER CO.
Supt., Orla Casad.....Merced
Mgr., S. F. B. Morse..... "
Cons. Engr., C. D. Martin..... "
Merced River and well, 12-in. 150 ft. deep.; 27 mi. from center distribution; no purification.
Gasolene engine, one 100-hp. Samson; elec. motor, 70-hp. 440 v. 3 ph. 60 cys. Westg.
Gravity distribution from reservoir, 35,000,000 gal.
Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 72, hose con. 2½-in. R. D. W.; valves, 75 R. D. W.; av. daily cons. 600,000 gal.; serv. con. 750; ord. pres. 40 lb.
Rates: flat, $1.00 mo., bath 30c., closet 30c.; meter, 50c. 1000 gal. max., 30c. min.

MILL VALLEY, 2,551.
NORTH COAST WATER CO.
Pres., James Newlands.....Mill Valley
Supt., John Burt..... " "
Mountain springs & impounding reservoirs, 2-11,500,000 gal.; 2 to 4 mi. from center distribution; no purification.
Gravity distribution from reservoir, 100,000 gal. & elev. tanks, 8-170,000 gal.
Pipe, 34 mi. 4 to 12-in. w. & c. i.; hyd. 119, hose con. 2½-in.; valves, 377 r. h. thd.; meters, 620 National; av. daily cons. 250,000 gal.; serv. con. 1036; ord. pres. 50 to 125 lb., fire pres. same.
Rates; flat, according to ground service occupied; meter, min. charge $1 mo., 37½c. 100 cu. ft.

MODESTO, 4,034.
MUNICIPAL.
Mayor, G. J. Wren.....Modesto
City Clerk, W. O. Thompson..... "
City Treas., E. B. Maze..... "
Wells, within city limits.

Pumps, 8-1,440,000 gal. centrifugal B. J. d. con. to elec. motors, 75-hp., 1-1,440,000 gal. centrifugal B. J. d. con. to elec. motor, 125-hp.; pumping direct & to elev. tank, 100,000 gal.

Pipe, 4 to 12-in.; hyd. 198, hose con. 2½-in.; ord. pres. 50 lb., fire pres. 109 lb.

MONROVIA, 3,576.

MUNICIPAL.

Mayor, H. G. Evans.....Monrovia
Trustee, W. H. Cook..... "
" C. O. Banks..... "
" R. G. Harvey..... "
" H. F. Sandfer..... "
Supt., W. M. Monroe..... "
Ch. Engr. P'g. Sta.,
Charles Regeler..... "

Mountain spring & wells; wells, 5 10 & 12-in. 40 to 490 ft. deep; no purification.

Boilers, 2 water-tube, 130-hp. ea. Freeman; oil fuel; pumps, 5; elec. motors, 2 440 v. 3 ph. 60 cys. G. E. & Westg.; pumping direct, to reservoir, 10,200,000 gal., and to standpipe 7 ft. in diam. concrete.

Pipe, 56 mi. 4 to 12-in. c. i., 5 mi. 20-in.; hyd. 156, hose con. 2½-in. Keystone, valves, 1200 r. h. thd. Crane; meters, 1557 Neptune, Thomson & Union; av. daily cons. 1,800,000 gal. dom. & irrigation; serv. con. 2014; weirs. 58; ord. pres. 23 to 56 lb., fire pres. 23 to 108 lb.

Rates: meter, min. charge 50c. mo. 600 cu. ft., 8c. 100 cu. ft.

MONTEREY, 4,923.

THE MONTEREY COUNTY WATER WORKS. General offiice, Crocker Bldg., San Francisco. Supplies Pacific Grove, Pebble Beach, Del Monte, and Carmel.

Pres., Vandelynn Stow.....San Francisco
Gen. Mgr., A. D. Shepard... " "
Sec., J. E. Polhemus..... " "
Supt., C. S. Olmstead.....Monterey

Carmel River; 21 mi. from center distribution.

Pumps, 5 Dean; gasolene engines, 2-25-hp. ea. Corliss, one 50-hp. F. M.; elec. motors, 2-30-hp. 220 v. 2 ph. 60 cys. Westg.; pumping to reservoirs, 2-161,000,000 gal., and to elevated tank, 20 ft. high, 127,000 gal. wood.

Pipe, 28 mi. 10 to 30-in. sheet steel, and iron; hyd. 131, hose con. 2½-in. Chapman, Garratt, etc.; meters, 3300 various; av. daily cons. 828,000 gal.; serv. con. 3451; ord. pres. 40 to 115 lb., fire pres. same.

MORGAN HILL, 607.

MORGAN HILL WATER CO.

Owner, W. L. Breyfogle.....Morgan Hill
Sec., O. Nonnan..... " "
Supt., C. H. Barrett..... " "

Mountain Springs. Gravity distribution from reservoirs and tanks, 2 (1907) 1,000,000 gal. concrete and wood.

Pipe, 3 mi. 4-in.; hyd. 8, hose con. 4-in.; valves, r. h. thd.; meters, 15 Neptune; serv. con. 130, ord. pres. 45 lb., fire pres. 75 lb.

Rates: flat, $1.00 mo.; meter, min. charge, $1.00 mo. 3000 cu. ft., 25c. 1000 cu. ft. max., 15c. min.

MOUNTAIN VIEW, 1,161.

MUNICIPAL.

Mayor, J. G. Jagels.....Mountain View
Trustee, J. McPhetus..... " "
" H. G. Childs..... " "
" J. H. Peisell..... " "
Engr. P'g. Sta., C. H. Chase. " "
Asst. Engr., Bert Hoff..... " "

Artesian wells, 3 10-in. 195 to 312 ft. deep; near center business section; no purification.

Boilers, 2 hor. tubular 60-hp. 100 lb. 1905; pumps, 2-1,036,800 gal. comp. duplex L-D-G 1905; pumping to elev. tank (1906) 100,000 gal. steel.

Pipe, 3 mi. 2 to 12-in. c. i., w. i., & galv. i.; hyd. 35, hose con. 3½-in.; meters, 317 Columbian & Neptune; av. daily cons. 3,275,000 gal.; serv. con. 317; ord. pres. 46 lb., fire pres. 110 lb.

Rates; meter, $1 mo. 6666 gal., 15c. 1000 gal.

NAPA, 5,791.

NAPA CITY WATER CO.

Pres., H. A. Meachan.....Napa
Sec., W. B. Thompson..... "
Supt., J. W. Parker..... "

Wells, 3 open 35 ft. deep & one tubular; 2 mi. from center distribution.

Boiler, 100-hp.; pumps, 1-1,580,000 gal. centrifugal, 1-864,000 gal. centrifugal, 1-1,440,000 gal. centrifugal driven by elec. motors, 2 50-hp. Westg., 1-2,000,000 gal. steam, 1-1,728,000 gal. centrifugal driven by elec. motor; pumping to reservoir, 1-6,000,000, 1-150,000 gal. & standpipe, 367,000 gal. steel.

Pipe, 4 to 12-in.; hyd. 92; ord. pres. 40 lb., fire pres. 80 lb.

NATIONAL CITY, 1,733.

SWEETWATER WATER COMPANY.

Gen. Mgr., John E. Boal.....National City
Asst. Treas., John Gould.... " "
Des. Engr., John F. Covert.. " "
Supt., C. C. Van Deripe..... " "

Sweetwater River; 8 mi. from center distribution; reservoir, 266,000 gal.; chemical, copper sulphate.

Gravity distribution.

Pipe, 79 mi. 4 to 30-in. c. i., w. i. and steel; hyd. 50, hose con. 4-in.; valves, 291, meters; 770; av. daily cons. 500,000 gal.; serv. con. 1122; ord. pres. 0 to 94 lb., fire pres. same.

Rates: flat, $1.50 mo.; meter, 30c. 1000 gal. max., 25c. min.

NEEDLES, 1,100.

MERCHANTS WATER, LIGHT & ICE CO.

Sec., P. J. Murphy.....Needles

Wells, 19 open & driven along the bank of the Colorado River; ½ mi. from center business section.

Pumps, 2-1,000,000 gal. ea. steam duplex Worth.; pumping direct.

Pipe, 6 to 8-in.; hyd. 41.

NEVADA CITY, 2,685.

MUNICIPAL.

Mayor, D. A. Dailey.....Nevada City
Trustee, John Curnow..... " "
" N. J. Rahr..... " "
" H. W. Hartung..... " "
Town Clerk, Geo. H. Calanan.. " "
Supt., Hugh Murchie..... " "

Lake Spaulding & impounding reservoirs, 4-5,129,000 gal. 50 mi. from center business section; settling basin, 1-1,500,000 gal.

Gravity distribution from reservoirs; pipe, 10 mi. 3 to 22-in. c. i., riveted steel & wood; hyd. 96, hose con. 2½-in. R. D. W.; av. daily cons. 1,080,000 gal.; serv. con. 800; ord. pres. 25 to 100 lb., fire pres. same.

Rates; flat, 25c. week.

NEWCASTLE, 759.

Supplied by the Placer Water District of the Pacific Gas & Electric Company. See Placer Water District. For executive officers, see San Francisco.

NEWPORT BEACH, 445.

MUNICIPAL.

Pres., Elbert Hermes.....Newport Beach
City Clerk, L. S. Wilkinson. " "
City Treas., Lew H. Wallace " "

Artesian wells, 2 7 & 12-in. 140 to 340 ft. deep; 3 mi. from center business section.

Pumps, 1-345,000 gal. triplex Goulds driven by gasoline engine, 35-hp. Lambert, 1-216,000 gal. centrifugal driven by gasoline engine, 20-hp. St. Marys; pumping direct & to reservoir, 580,000 gal.

Pipe, 2 to 12-in.; meters, 36; serv. con. 520; ord. pres. 45 lb.

NILES, 1,800.

CITIZENS WATER COMPANY.

Supt., Edward Ellsworth.....Niles

Wells, 2-10 & 12-in. 93 ft. deep; 800 ft. from center distribution.

Pumps, 1-216,000 gal., 1-432,000 gal., Ames; elec. motors, 2 8 & 15-hp.; pumping direct and to elev. tank, 7 ft. high, 10,000 gal. steel.

Hyd., 16, hose con. 2½-in.; meters, Buffalo; av. daily cons. 120,000 gal.; serv. con. 215; ord. pres. 35 lb., fire pres. 100 lb.

Rates: flat, $1.00 mo.; meter, 20c. 1000 gal. max., 12c. min.

NORTH SAN JUAN, 400.

MUNICIPAL.

Leased to Mrs. E. A Brunson.

Sec., W. E. Moutlon.....No. San Juan

Purchase water from Northern Water & Power Co., who conduct water from mountain lakes through canals, a distance of 60 mi., to furnish water for mines, power & irrigation.

Gravity distribution from reservoirs, 2-700,000 gal.; pipe, one mi. 1 to 12 in. c. i.; hyd. 8, hose con. 3-in.; valves, one r. h. opening Merrill; meters, none; av. daily cons. 15,000 gal. 85%; serv. con. 32; ord. pres. 90 lb.

Rates; flat, 50c. week.

OAKDALE, 1,035.

MUNICIPAL.

Supt., W. F. Wheeler.....Oakdale
Cons. Engr.,
George L. Dillman.....San Francisco
C. Engr. P'g. Sta.,
Harry L. Crow..... " "
City Clerk, R. L. Acker..... " "

Wells, 2-10-in. 235 ft. deep; one mi. from center distribution.

Pumps, 2-720,000 gal. Garrett; d. con. to gasolene eng. 50-hp. Western; elec. motor, d. c., Crocker Wheeler; pumping direct and to reservoir, 40 ft. in diam. 500,000 gal.

Pipe, 13 mi. 4 to 12-in.; hyd. 56, hose con. 2½-in. Richmond; valves, 75 r. h. thd. Nat. Tube; meters, 440 Worthington; av. daily cons. 200,000 gal.; serv. con. 450; ord. pres. 40 to 50 lb., fire pres. 100 to 125 lb.

Rates: meter, 17c. 1000 gal. max., 5c. min.

OAKLAND, 150,174.

PEOPLES WATER CO.

Office, 9th & Broadway. Supplies water for all cities along the east shore of San Francisco Bay as follows: Alameda, Alverado, Berkeley, Emeryville, Piedmont, Richmond, & San Leandro.

Pres., S. T. Havens.....San Francisco
V. Pres., M. M. Kelly..... " "
2nd V. Pres., J. Y. Ettleston. " "
3rd V. Pres., Wickam Havens " "
Sec.-Treas., S. M. Marks..... " "
Ch. Engr., George Wilhelm.....Oakland

Lake San Leandro, stream & wells, 14 12-in. 180 to 500 ft. deep; mech. filters, 4-600,000 gal. Hyatt & Loomis.

Boilers, 2 return tubular 100-hp. ea. Erie, 3 return tubular 100-hp. ea. Atlas, 2 return tubular 125-hp. ea. Atlas, one return tubular 75-hp. Bunton, one locomotive 1-1,500,000 gal. hor. comp. Oakland, 1-2,500,000 gal. hor. comp. Worth., 1-1,250,000 gal. hor. comp. Worth., 1-2,750,000 gal. hor. comp. Deane, 1-2,000,000 gal. hor. comp. duplex c. & f. wh. Prescott, 1-600,000 gal. hor. comp. duplex Snow, 1-350,000 gal. hor. duplex Dow, 3-875,000 gal. ea. triplex Knowles Platt belt driven from gasoline engines; air compressors, 3; pumping direct & to reservoirs, 5-67,000 gal.

Pipe, 53 mi. 4 to 24-in. c. & w. i.; hyd. 1337; av. daily cons. 15,884,000 gal.; ord. pres. 23 to 115 lb.

OCEAN PARK, 3,119.

OCEAN PARK WATER CO.

Pres., E. J. Vawter, Jr.....Ocean Park
V. Pres., Gen. Mgr., Pur. Agt. &
Des. Engr., C. H. Mellen.... " "
Sec., R. C. Harris..... " "
Engr. P'g. Sta., E. Hill..... " "

Wells, 6 12-in. 80-ft. deep; one mi. from center business section; no purification.

Pumps, 1-720,000 gal. hor. centrifugal B. J. 1906 belted to elec. motor, 50-hp. 220-v. 3 ph. G. E. 1906, 1-576,000 gal. hor. centrifugal B. J. 1912 belted to elec. motor, 30-hp. 220 v. 3 ph. G. E. 1912; elec. energy from Southern California Edison Co.; pumping to reservoir, 1,250,000 gal.

Pipe, 7 mi. 2 to 10-in. steel; hyd. 30, hose con. 2½-in.; meters, 150 Neptune & Union; av. daily cons. 250,000 gal.; serv. con. 1000; ord. pres. 20 to 60 lb., fire pres. same.

Rates; flat, $1.25 mo., bath 25c., closet 25c.; meter, min. charge $1 mo. 650 cu. ft., 15c. 100 cu. ft. max., 10c. min.

OCEANSIDE, 673

MUNICIPAL.

Pres. Trustees, David Rorick....Oceanside
City Clerk, A. P. Brodie..... "
City Treas., E. A. Payne..... "

Wells in the San Luis Ray River bed; 1.5 mi. from center business section.

Pumps, 1-604,000 gal. Platt, 1-1,440,000 gal. Corliss; pumping to reservoirs, 4-955,000 gal.

Pipe, 2 to 10-in.; hyd., hose con. 2½-in.; ord. pres. 52 lb., fire pres. 32 to 73 lb.

ONTARIO, 4,274.

MUNICIPAL.

Supt., Fred. E. Alford.....Ontario
Cons. Engr., F. E. Trask.....Los Angeles
Ch. Engr. P'g. Sta., M. D. James..Ontario

Wells in San Antonio Canyon, 2 12-in. 750 ft. deep; 4 mi. from center distribution; no purification.

Pumps, 2 Pomono; belt connected to motors, 3-75-hp. 220 v. 3 ph. 60 cys. Westg.; pumping to reservoirs, 4-3,500,000 gal.

Pipe, 52 mi. 4 to 12-in. w. i. & riv. steel; hyd. 305, hose con. 2½-in. home-made; valves, 225 r. h. thd. Crane; meters, 1445 Neptune & National; av. daily cons. 600,000 gal.; serv. con. 1445; ord. pres. 45 to 120 lb., fire pres. same.

Rates: meter, $1.00 1000 gal. max., 50c. min.

ORANGE, 2,920.

MUNICIPAL.

Pres. Trustees, Adolph Dettner.....Orange
City Clerk, P. W. Hallman..... "
City Treas., W. E. Clement..... "

Wells; ¾ mi. from center distribution; reservoir, 60,000 gal.

Pumps, 1-720,000 gal. steam duplex, 1-388,800 gal. triplex single act. belted to distillate engine; pumping to elev. tanks, 2-50,000 gal. ea.

OROVILLE, 3,859.

OROVILLE WATER CO. Office, Sharon Bldg., San Francisco, Calif. Supplies Thermalito.

Pres., L. J. Holton.....San Francisco
V. Pres. & Gen. Mgr.,
R. L. Vander Naillen..... " "
Sec., W. G. Jack.....San Francisco
Pur. Agt., J. H. Williams.... " "
Supt., A. A. Davis.....Oroville
Cons. Eng., J. D. Galloway..San Francisco

Impounding reservoirs, 2 on Feather River.

Gravity distribution from reservoirs, 2; pipe, 26.15 mi. 2 to 26-in. c. i., w. i., & wood; hyd. 16 4-in. Judson; meters, 5 Neptune; serv. con. 394; ord. pres. 52 to 68 lb., fire pres. same.

Rates; flat, $1 mo., bath 15c. closet 20c. meter, 20c. 1000 gal. max., 10c. min.

OXNARD, 2,555.

MUNICIPAL.

Supt., T. E. Walker.....Oxnard
Cons. Engr., S. G. Bennett..... "

Artesian wells, 2 14-in., 232 & 234 ft. deep.

Boilers, 2 water-tube 100-hp. Casey-Hedges; oil fuel; pumps, 1 hor. compound 2,160,000 gal. L-D-G., 1 hor. compound duplex 1,440,000 gal. Blake; pumping direct and to standpipe (1914) 26 ft. in diam. 103 ft. high 150,000 gal. steel.

Pipe, 9.6 mi. 4 to 14-in. c. i.; hyd. 93, hose con. 2½-in. Torrey; meters, 6, 5 Neptune, 1 Pittsburgh; av. daily cons. 858,000 gal.; serv. con. 791; ord. pres. 30 to 45 lb., fire pres. 120 lb.

Rates: flat, dom. $1.50 mo., bath $1.00, closet 25c.; meter, min. charge $1.00 mo., 10c. 1000 gal. max., 6c. min.

PACIFIC GROVE, 2,384.

Supplied by THE MONTEREY COUNTY WATER WORKS. See Monterey.

PALMDALE, *100.

PALMDALE LAND COMPANY.

Supt., George P. Thresher, 37 Westmoreland Place, Los Angeles
Ch. Engr. P'g. Sta., A. E. Boies..Palmdale

Little Rock Creek; 1½ mi. from center distribution; impounding reservoir, 636,000,000 gal., filter box.

Gravity distribution. Pipe, 1½ mi. 3-in galv. i.

Rates: flat, $2.50 mo.

PALM SPRINGS, 66.

PALM VALLEY WATER COMPANY.

Supt., Ralph Rogers.....Palm Springs

White Water River 7 mi. & Chino Canyon 4 mi. from center distribution; 7 mi. stone paved open ditch & gravity line, 4 mi. 2 to 18 in.

Gravity distribution from reservoir, 100,000 gal.

Pipe, 4 mi. 2 & 4-in.; av. daily cons. 100,000 gal. winter & 1,000,000 gal. summer; serv. con. 21; ord. pres. 100 lb.

PALO ALTO, 6,300.

MUNICIPAL.

City Engr. & Supt.,
J. P. Baxter, Jr.....Palo Alto

Wells, 4 10 to 16-in. 180 to 275 ft. deep; ¾ mi. from center distribution; no purification.

Pumps, 3-4,320,000 gal. driven by elec. motors, 140 kw. 440 v. 3 ph. 60 cys. Westg. & Crocker-Wheeler; elec. energy from municipal power plant; pumping direct & to elev. tank, 150,000 gal. concrete.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 120, hose con. 2½-in. Crane & Rensselaer; valves, 100 l. h. thd. mostly Crane; meters, 1323 Neptune & Worth.; av. daily cons. 500,000 gal.; serv. con. 1382; ord. pres. 30 to 45 lb., fire pres. 75 to 100 lb.

Rates; meter, 12c. 1000 gal., serv. con. 50c.

PASADENA, 30,291.

MUNICIPAL since Nov. 1, 1912 when the city purchased six separate systems.

Ch. Engr., S. B. Morris.....Pasadena
Mgr., Wm. Selbie..... "
Comr. Public Utilities,
M. H. Salisbury..... "
Supt., J. E. Carpenter..... "
Chemist, F. E. Marks..... "
Pur. Agt., P. T. Keenan..... "

Streams Angelus Forest Reserve, tunnels and wells in coarse gravel surrounding city; wells, open and driven, 12-in. 250 to 734 ft. deep; no purification.

Boilers, 2 hor. water-tube 275-hp. Kewanee; oil fuel; pumps, 8 centrifugal and air lift, 13,350,000 gal.; elec. motors, 3 845-hp 220, 440 & 2200 v. 3 ph. 60 cys. Westg. & G. E.; pumping direct and to reservoirs, 9 56,850,000 gal. concrete.

Pipe, 132½ mi. 4 to 30-in. c. i & steel; hyd. 513, hose con. 2½ & 4-in. various; valves, l. h. opening; meters, 10,077 mostly Neptune; av. daily cons. 7,140,000 gal.; serv. con. 11,317; ord. pres. 10 to 80 lb., fire pres. same.

Rates; flat, 90c. mo.; meter, min. charge 90c. mo. 500 cu. ft., 10c. 100 cu. ft.

EUCLID AVENUE WATER CO. Supplies So. Pasadena. Office, 1418 Wilson Ave., So. Pasadena.

Supt., M. W. Crowell.....Pasadena
Sec., Theo. F. Taylor.....So. Pasadena
Treas., John E. Jardine..... " "

Wells, 3 14 & 18-in. 125 to 265 ft. deep; one mi. from center distribution; reservoir, 322,000 gal.; no purification.

Pumps, Addison driven by elec. motors, 2 15 & 20-hp. 220 v. 3 ph. 50 to 60 cys.; elec. energy from So. California Edison Co.; pumping to reservoir, 42,000 gal.

Pipe, 1.8 mi. 4 to 12-in.; valves, 3; serv. con. 20; ord. pres. 45 lb., fire pres. same.

Rates; meter, $1 1000 cu. ft.

PASO ROBLES, 1,441.

PASO ROBLES LIGHT & WATER CO. (Owned by Midland Counties Public Service Corp., 805 Garland Bldg., Los Angeles.

Dist. Agt., K. B. Lass.....Paso Robles

Well, in creek bed.

Pump, 1-647,000 gal. triplex Platt belted to elec. motor, 50-hp.; pumping to reservoir, 50,000 gal. & standpipe, 1,000,000 gal.

Pipe, 2 to 8-in.; hyd. 16; ord. pres. 80 lb.

PEBBLE BEACH.

Supplied by THE MONTEREY WATER WORKS. See Monterey.

PETALUMA, 5,880.

PETALUMA POWER & WATER CO. Office, 114 Main St.

Supt. & Sec., Fred O. Ellsworth..Petaluma
Pres., A. D. Hill..... "

Creek; 6 mi. from center business section; impounding reservoir, 87,500,000 gal.

Gravity distribution from reservoir, 2,800,000 gal.; pipe, 4 to 10-in.; hyd. 75, hose con. 2½-in.; av. daily cons. 1,250,000 gal.; ord. pres. 60 to 65 lb.

PIEDMONT, 1,719.

Supplied by the Peoples Water Co. See Oakland.

PINOLE, 798.

HERCULES WATER CO. Office, 1025 Chronicle Bldg., San Francisco.

Sec., P. A. McMahon.....San Francisco
Supt., S. D. Beasley.....Pinole

PITTSBURG, 2,372.

BLACK DIAMOND WATER CO.

Pres. & Mgr., F. E. Booth.....Pittsburg
V. Pres. & Supt., W. G. H. Croxon "
Sec., T. J. Scotchler..... "
Cons. Engr., A. Kempkey,
721 Balboa Bldg., San Francisco

San Joaquin River; 600 ft. from center distribution; coagulating basins, 2-133,000-gal.; mechanical filters, 550,000 gal.; chemical, sulphate of alumina.

Pumps, 4 1,920,000 gal. B. J., American & F. M.; gasolene engines, 3-92-hp., F. M., Doak & Hercules; elec. motor, one 70-hp. 440 v. 3 ph. 60 cys. F. M.; pumping to elevated tank, 88 ft. high 100,000 gal. wood.

Pipe, 3¼ mi. 4 to 12-in. wood; hyd. 31, hose con. 2½-in. United; valves, 45 r. h. thd. Nelson, Crane & Lunkenheimer; meters, 30 Worth.; av. daily cons. 250,000 gal.; serv. con. 675; ord. pres. 15 to 35 lb., fire pres. 50 to 60 lb.

Rates: flat, $1.75 mo.; meter, min. charge $1.50 mo.; 20c. 1000 gal.

PLACER WATER DISTRICT.

Owned by the Pacific Gas and Electric Company. Supplies Auburn & Rocklin and the suburban territory surrounding Lincoln, Loomis, Newcastle & Roseville. For executive officers, see San Francisco.

Dist. Mgr., H. M. Cooper.....East Auburn

Impounding reservoir on Bear River.

Gravity distribution from reservoir, 1,000,000 gal.

Pipe, 17.8 mi. 4 to 16-in. c. & w. i.; hyd. 133; av. daily cons. 1,582 gal.; ord. pres. 60 to 125 lb., fire pres. 80 to 125 lb.

Rates; flat, min. $1 mo.

PLACERVILLE, 1,914.

PLACERVILLE WATERWORKS. (Privately owned.) Office, 464 California St., San Francisco.

Sec., J. W. Pyah.....San Francisco

Gravity distribution from impounding reservoirs, 2-2,500,000 gal.; pipe, 4 to 8-in.; ord. pres. 60 to 90 lb.

PLEASANTON, 1,254.

MUNICIPAL.

Pres., C. H. Schween.....Pleasanton
Trustee, C. Lertham..... "
" H. Reimers..... "
" J. P. Rosa..... "
Town Clerk, Peter Roak..... "
Supt. & City Engr., H. A. Sinclair "

Wells, 4 artesian & 7 tubular 12-in. 120-ft. deep; ½ mi. from center business section.

Pumps, 1-300,000 gal. vert. centrifugal Westg. d. con. to elec. motors, 1-300,000 gal. vert. centrifugal F. M. belted to gasoline engines, 72-hp. F. M. 1900; elec. energy from Pacific Gas & Elec. Co.; pumping to elev. tanks, 2 (1891) 450,000 gal. concrete.

Pipe, 5.5 mi. 3 to 8-in. c. i.; hyd. 100, hose con. 2½-in. N. Y.; valves, 30 l. h. opening; meters, 468; av. daily cons. 300,000 gals. 35%; serv. con. 496; ord. pres. 68 to 80 lb., fire pres. 78 to 110 lb.

Rates; meter, min. charge $1 mo. 5000 gal., 15c. 1000-gal.

POMONA, 10,207.

CONSOLIDATED WATER COMPANY.

Supt., G. A. Lathrop.....Pomona
Asst. Mgr., W. H. Johnston..... "
Ch. Engr. P'g. Sta., N. C. Pedley... "

Wells, 6-14 & 16-in. 250 to 700 ft. deep; reservoir, 1,000,000 gal. concrete; no purification.

Elec. motors, 6; pumping to reservoir, above.

Pipe, 19.5 mi. 4 to 16-in. steel; hyd. 266, hose con. 2½-in.; meters, 2300 Trident; serv. con. 3500; ord. pres. 45 to 50 lb., fire pres. 125 lb.

Rates: flat, $1.00 mo., bath 25c., closet 25c.; meter, min. charge $1.00 mo. 600 cu. ft., 10c. 1000 gal. max., 8c. min.

PORT COSTA, 850.

PORT COSTA WATER COMPANY. Office, Insurance Exchange Bldg., San Francisco. Supplies Crockett.

Pres., G. W. McMear.....San Francisco

Springs & wells; reservoir, 6,000,000 gal.

Pumps, 1-1,440,000 gal. driven by elec. motor, 2-216,000 gal.; pumping direct.

Pipe, 4 to 10-in.; hyd. 24, hose con. 2½-in.; ord. pres. 50 lb., fire pres. 150 lb.

PORTERSVILLE, 2,696.

MUNICIPAL.

City Engr., Irvin H. Althouse..Portersville
Supt., Edward Curd..... "

Wells, 4 12 & 16-in. 120 to 500 ft. deep; within city limits.

Pumps, 2 triplex 216,000 gal. ea. Deane, 2 centrifugal 216,000 gal. ea. B. J.; belt on. to gasolene engines, 2 32-hp. F. M. & elec. motors, one 30-hp. 220 v., one 50-hp. 2200 v. 3 ph. 60 cys. G. E.; pumping direct-to standpipe (1911) 45 ft. in diam. 25 ft. high, steel and to elevated tank, 133 ft. high 75,000 gal. steel.

Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in.; av. daily cons. 500,000 gal.; serv. con. 600; ord. pres. 40 to 50 lb., fire pres. 70 to 100 lb.

Rates: meter, 15c. 1000 gal.

RED BLUFF, 3,530.

ANTELOPE CREEK & RED BLUFF WATER CO. Office, 14 Montgomery St., San Francisco.

Mgr., Elliot McAllister.....San Francisco

Antelope Creek, 9 mi. from center distribution, & wells.

Boiler, one; pumps, 1-1,440,000 gal. turbine Krough driven by elec. motor, 1-864,000 gal. duplex steam Blake; pumping to reservoirs, 2-100,000 gal. ea. iron.

Pipe, 4 to 12-in.; hyd. 90, hose con. 2½ to 4-in.; valves, Globe; ord. pres. 26 lb.

REDDING, 3,562.

REDDING WATER CO. (Controlled by Northern California Power Co., Cons., office, 995 Market St., San Francisco.)

Sec., Edward Whaley.....San Francisco

Wells, tunneled into Sacramento River.

Pumps, 2-2,160,000 gal. centrifugal driven by elec. motors; pumping to reservoir, 3,000,000 gal.

Pipe, 4 to 16-in.; hyd. 55, hose con. 2½-in.; ord. pres. 42 to 70 lb.

REDLANDS, 10,449.

BEAR VALLEY MUTUAL WATER COMPANY.

Pres. & Gen. Mgr.,
Herbert H. Garstin.....Redlands
V. Pres., E. M. Lyon..... "
Sec.-Treas., A. C. Reeder..... "

Bear Valley Lake & impounding reservoir on Santa Ana River, 21,303,052,000 gal.

Gravity distribution from irrigation canal; pipe, 4 to 13-in.; hyd. 74; ord. pres. 40 to 100 lb.

REDONDO, 2,935.

REDONDO WATER CO. Office, 728 Pacific Elec. Bldg., Los Angeles.

Sec., A. D. Walker.....Los Angeles

Wells, 3 90 ft. deep; near center distribution.

Pumps, 1-1,215,000 gal. triplex deep well Goulds d. con. to elec. motor, 1-1,168,000 gal. triplex deep well Goulds belted to elec. motor; pumping to reservoirs, 2-2,000,000 gal.

Pipe, 2 to 15-in.; hyd., hose con. 2 & 2½-in.; ord. pres. 10 to 67 lb.

REDWOOD CITY, 2,442.

REDWOOD CITY WATER COMPANY.

Pres., A. D. Walsh.....Redwood City
V. Pres., H. W. Shaberg..... " "

Sec. & Mgr., George W. Lovie, Redwood City
Ch. Engr. P'g. Sta.,
A. S. Ligouri..... " "

Wells, 5 7 to 14-in. 155 to 226 ft. deep; one mi. from center distribution; settling basin, 50,000 gal.; chemical, none.

Pumps, 2-864,000 gal. B. J.; d. con. to elec. motors, 3 ph. 60 cys.; pumping direct & to reservoir, 60,000 gal.

Municipality owns the distribution system.

REEDLEY, 1,600.

MUNICIPAL.
Supt., A. Shaw.....Reedley
Cons. Engr., Christian P. Jensen...Fresno
City Clerk & Asst. Supt.,
Chas. M. Knauer.....Reedley

Wells, 3-8 & 12-in. 118 ft. deep; at center distribution.

Pumps, 4 792,000 gal., 3 B. J., 1 Price; d. con. to elec. motors, 3-7½-hp., 1-25-hp. 220 v. 3 ph. 60 cys. G. E.; pumping direct and to elevated tanks, 1-120 ft. high, 60,200 gal. steel, 2 40 ft. high, 20,000 gal. ea.

Pipe, 10 mi. 4 to 12-in. w. i.; hyd. 66, hose con. 2½-in. Crane; valves, 65 r. h. thd. Crane; meters, 29 Neptune; av. daily cons. 400,000 gal.; serv. con. 400; ord. pres. 50 lb., fire pres. 80 to 110 lb.

Rates: flat, $1.50 mo., bath & closet incl.; meter, 25c. 1000 gal. max., 10c. min.

RIALTO, 400.

RIALTO DOMESTIC WATER CO.
Pres., A. D. Miller.....Rialto
Sec., R. L. McCrea..... "

Lytle Creek; 11 mi. from center business section; by way of the ditches of the Lytle Creek Water & Development Co. to reservoir, 240,000 gal.

Gravity distribution; pipe, 3 to 18-in.; hyd. 50, hose con. 2 & 2½-in.; av. daily cons. 475,000 gal.; ord. pres. 65 to 70 lb. s p

RICHMOND, 6,802.

Supplied by the Peoples Water Co. See Oakland.

RIO VISTA, 884.

MUNICIPAL.
Chmn. Comrs., E. J. Fraser.....Rio Vista
Comr., John McCormack..... " "
" J. W. Hamilton..... " "
Supt., R. L. Upham..... " "
Town Clerk, T. J. Kalber..... " "

Wells, 3 8-in. 135-ft. deep in bed of Sacramento River; ½ mi. from center distribution; reservoir, 200,000 gal.; no purification.

Pump driven by elec. motor, 50-hp. 3 ph.; pumping to elev. tank (1913) 100,000 gal. wood & iron.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in.; meters, 20 Worth.; av. daily cons. 100,000 gal.; serv. con. 300; ord. pres. 55 lb., fire pres. same.

Rates; flat, 75c. mo., bath 25c. closet 25c.; meter, 30c. 1000 gal. max., 15c. min.

RIVERSIDE, 15,212.

MUNICIPAL.
Gen. Mgr., Joseph H. Cox.....Riverside

Artesian wells, 37 10 to 14-in. 450 to 1100 ft. deep; 14 mi. from center distribution.

Pumps, 10-8,000,000 gal.; gasolene engines 4 140-hp. F. M.; elec. motors, 273 kw. 3 ph. 50 cys. G. E.; hydro-elec. plant; pumping to reservoirs, 8 6,100,000 gal.

Hyd. 553, hose con. 2½ & 4-in. Keystone & Columbian; valves, r. h. thd. National & Columbian; serv. con. 4431; ord. pres. 50 to 100 lb., fire pres. same.

Rates: flat, 90c. mo., bath 25c., closet 35c.; meter, min. charge $1.00 mo., 50c. 1000 cu. ft. max., 15c. min.

ROCKLIN, 1,026.

Supplied by the Placer Water District of the Pacific Gas & Electric Company. See Placer Water District. For executive officers, see San Francisco.

ROSEVILLE, 2,608.

ROSEVILLE WATER CO. Office, 512 Folsom St., San Francisco.
Supt., W. G. Hemphill.....Roseville
Sec., Jacob Samuels.....San Francisco

Supply from the Placer Water District of the Pacific Gas & Elec. Company. See Placer Water District.

Gravity distribution from reservoirs, 3-492,000,000-gal.; pipe, 4 to 20-in.; hyd. 106, hose con. 2½-in.; av. daily cons. 1,000,000 gal.; ord. pres. 65 lb., fire pres. 95 lb.

ROSS, 556.

Supplied by Marin Water & Power Co. Office, 1210 Flood Bldg., San Francisco. See San Rafael.

SACRAMENTO, 44,696.

MUNICIPAL.
Ch. Engr., Louis D. Ehret....Sacramento
Des. Engr., F. Miller..... "
Comr., Thomas Coulter..... "

Sacramento River; no purification.

Boilers, 6 water-tube 700-hp., 4 Heine, 2 Sterling; oil fuel, pumps, one vertical triple expansion 10,000,000 gal. Snow, one vertical triple expansion 5,000,000 gal. Allis C.; one 5,000,000 gal. Holly, 1 2,000,000 gal. Dow, 1 turbine driven centrifugal 10,000,000 Alberger; pumping direct.

Pipe, 65 mi. 4 to 30-in. c. i., w. i. & steel; hyd. 600, hose con. 2½-in. Ludlow & Rensselaer valves, 390 r. h. thd. Ludlow, Garrett & Brown; av. daily cons. 14,500,000 gal.; serv. con. 14,000; ord. pres. 40 lb., fire pres. 60 lb.

SALIDA, 4,425.

MUNICIPAL.
Supt., J. M. Hindman.....Salida
Des. Engr., H. Sneddon..... "
City Clerk, H. H. Parker..... "

Spring; 2 mi. from center distribution; impounding reservoir, 3,000,000 gal.; no purification.

Gravity distribution.

Pipe, 16 mi. 4 to 12-in. c. i. & w. i.; hyd. 70, hose con. 4-in. various; valves, 91 r. & l. h. thd. various; meter, 25 National; av. daily cons. 3,000,000; serv. con. 1050; ord. pres. 62 to 73 lb., fire pres. same.

SALINAS, 3,736.

COAST VALLEYS GAS AND ELECTRIC Co. Office, 58 Sutter St., San Francisco. (Controlled by the United Railways Investment Co., 25 Broad St., New York.)

For officers, see King City.

Wells, 8 6 to 12-in. 125 to 230 ft. deep; at center of distribution; no purification.

Boiler, 1 235-hp Sterling; oil fuel; pumps, 1-1,225,000 gal. triplex Platt, 2 hor. turbine 2,300,000 gal. ea. Krogh, 2 centrifugal 432,000 gal. ea. Price; elec. motors, one 150-kw. 2200 v. 3 ph. 60 cys. Nat'l., one 56 kw. 2200 v., one 15 kw. 220 v. 3 ph. 60 cys. Westg., one 56 kw. 2300 v., one 11 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to elevated tanks, one 55 ft. high 60,000 gal. wood, 2 85 ft. high 50,000 gal. ea. wood.

Pipe, 6.3 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in.; valves, 4 Crane; meters, 4 Neptune; av. daily cons. 1,093,000 gal.; serv. con. 966; ord. pres. 36 to 43 lb., fire pres. 43 to 80 lb.

Rate: flat, $1.00 mo. incl. bath & closet.

SAN ANSELMO, 1,531.

THE DOHERTY Co. Supplies Corte Madera.

Supt. E. L. Doherty.....San Anselmo

Lake Lageunitas; 3 mi. from center distribution.

Pumps, 6-144,000 to 192,000 gal.; elec. motors, 110 & 220 v. 1 & 3 ph. 60 cys.; pumping to tanks, 10-10,000 gal. wood.

Pipe, 3 mi. 4 to 12-in.; hyd. 30, hose con. 1½ & 2½-in.; meters, 200 various; av. daily cons. 100,000 gal.; serv. con. 200; ord. pres. 50 to 150 lb., fire pres. same.

Rates; meter, 50c. 1000 gal.

SAN BERNARDINO, 12,779.

MUNICIPAL.

Chmn. Comrs., C. A. Roure. San Bernardino
Comr., A. M. Ham..... " "
" T. J. Hamilton..... " "
Supt., D. M. Harris..... " "
Cons. Engr., Frank Smith.. " "
Ch. Engr. P'g. Sta.,
Fred Hesom..... " "
Chemist, S. M. Woodbridge " "

Artesian wells, 4-10 to 16-in. 600 ft. deep; 2 mi. from center distribution; reservoir, 2,500,000 gal.; sterilizing plant; chemical hypochlorite of lime.

Boilers, 2 100-hp., one 200-hp. Heine; pumps 2-5,400,000 gal. Prescott & Snow; air compressor, Ingersoll-Rand; elec. motors one 125-hp. 2 100-hp. one 75-hp. 2 50-hp., 3 ph. Westg. & G. E.; pumping direct and to reservoir, 2,500,000 gal.

Pipe, 72 mi. 4 to 20-in. c. i. & steel; hyd. 330, hose con. 2½-in R. D. W. & Rensselaer; valves, 740 mostly Rensselaer; meters, 250 National, Neptune & Worth.

Rates: meter, 60c. 1000 cu. ft. max.

SAN DIEGO.

CORONADO WATER COMPANY. Office, Union Bldg. Supplies Coronado. For executive officers, see Coronado.

SAN DIEGO, 39,578.

MUNICIPAL.

Supt., H. R. Fay.....San Diego
Cons. Engr. H. A. Whitney,
1213 Wilcox Bldg....Portland, Ore.
Sec., I. G. Lewis.....San Diego
Chemists, Smith Emory & Co.... " "

San Diego River and wells, 13, 12-in., 80 ft. deep; 4 to 72 mi. from center distribution; mech. filters, 5,000,000 gal.; chemicals, alum and copper sulphate.

Pumps, 2 four-stage 250-hp turbine pumps, 1-250-hp 10,000,000 gal.; d. con. to elec. motors, 2200 v. 3 ph. 60 cys. Crocker Wheeler; pumping to reservoirs, 7-29,000,000 gal.; standpipes, 2 (1910) 40 ft. in diam. 47 & 52 ft. high, steel.

Pipe, 173½ mi. 4 to 12-in. c. i., 19 mi. 16 to 30-in. c. i., 2 mi. over 30-in. c. i.; hyd. 940, hose con. 2½- and 4-in., California and Standard I. W.; valves, 2748 r. & l. thd. various; meters, 14,436 Neptune 63 per cent., Thomson 25 per cent.; av. daily cons. 8,000,000 gal.; serv. con. 14,436; ord. pres. 20 to 135 lb., fire pres. same.

Rates: meter, 8c. 100 cu. ft.

CUYAMACA WATER COMPANY. Office Fletcher Bldg., San Diego.

Pres., James A. Murray.....San Diego
V. Pres. & Mgr., Ed. Fletcher... " "
Sec., L. B. Matthews..... " "
Supt., C. Harritt..... " "
Cons. Engr., W. S. Post..... " "

San Diego River, Cuyamaca Lake and wells, 9 10 to 24-in. 17 to 42 ft. deep; 50 mi. from center distribution; impounding reservoirs, 5-525,719,000 gal.; chemical, copper sulphate.

Pumps, 1-1,728,000 gal. B. J., one 3-stage B. J., one vertical triplex Deane, 2 B. J., one triplex Goulds; elec. motor, 150-hp 440 v. 170 amps. 60 cys. G. E.; gasoline engines, one 50-hp. F. M., one 7-hp., one 15-hp. Otto.

Pipe, 41 mi. ¾ to 24-in, c. i., w. i. & wood stave; meters, 580; serv. con. 580.

Rates: flat, none; meter, 25c. 1,000 gal. max.; 15c. min.

SAN DIMAS, 550.

SAN DIMAS CHARTER OAK DOMESTIC WATER Co. Domestic department of the San Dimas Water Co., a mutual irrigation company.

Pres., W. H. Collins.....San Dimas
V. Pres., W. A. Johnston..... " "
Sec. & Mgr., Wm. Bowring..... " "

Mountain stream of San Dimas Canon and wells, 2, 16 & 18-in. 500 ft. deep, 1½ mi. from center distribution; no purification.

Pumps, 2 deep-well; belt driven from gasolene engines, 2 100-hp. F. M.; pumping direct and to reservoirs, 2-2,425,000 gal.

Pipe, 20 mi. 4 to 12-in.; hyd. 6, hose con. 2-in. F. M.; meters, 550 mostly Neptune; av. daily cons. 30 to 50 lb., fire pres. same.

Rates: meter, min. charge $1.25 mo. for 5500 gal.

SAN FERNANDO, 800.

CONSOLIDATED SECURITIES CO.
Pres., O. J. Sweet.....San Fernando
V. Pres., George S. Beatty... " "
Supt., F. A. Powell..... " "

Wells, 6 12-in. 175 ft. deep; no purification.

Motors, 2200 v.; pumping to reservoirs, 75x75 ft; av. daily cons. 16,000 gal.; serv. con. 500, ord. pres. 10 lb., fire pres same.

Rate: flat, $1.50 mo.; meter, min. charge $1.25 800 cu. ft.

SAN FRANCISCO, *465,000.

SPRING VALLEY WATER CO. Office, 375 Sutter St.
Pres., W. B. Bourne.....San Francisco
V. Pres. & Gen. Mgr.,
S. P. Eastman..... " "
Sec., John E. Behan..... " "
Treas., Benjamin Bangs..... " "
Pur. Agt., C. B. Head..... " "
Supt., G. A. Elliott..... " "
Ch. Engr., F. C. Herrman.... " "
Adv. Engr., Hermann Schussler " "
Asst. Engr. & Statistician,
John J. Sharon..... " "
Chemist, F. M. Eastman..... " "

Impounding reservoirs, 4-30,000,000 gal. fed by infiltration galleries and artesian wells, 44 10-in. 100-ft. deep; 6 to 45 mi. from center distribution; mech. filters, 7,500,000 gal. Jewell; chemical, copper sulphate.

Boilers, 2 160-hp. ea. 110 lb. B. & W. 1898, 4 250-hp. ea. 110 lb. B. & W. 1901, 2 300-hp. ea. 1110 lb. B. & W. 1902, 4 136-hp. ea. 110 lb. B. & W. 1891, 2 160-hp. ea. 125 lb. B. & W. 1898, one 135 hp. 110 lb. B. & W. 1886 & one 104 hp. 110 lb. B. & W. 1899, one 175-hp. 110 lb. Heine 1893, one 100-hp. 125 lb. B. & W. 1898, 2 125-hp. ea. 120 lb. Heine 1895 & 1896, 2 160-hp. ea. 120 lb. B. & W. 1898 & 1907, 2 150-hp. ea. 145 lb. B. & W. 1898 all water-tube; pumps, 1-3,250,000 gal. Fulton 1893, 1-3,000,000 gal. Union 1886, 2-3,700,000 gal. Risdon 1891, 1-1,250,000 gal. Union 1894, 2-5,500,000 gal. Union 1888, 2-8,000,000 gal. Risdon 1898, 1-1,500,000 gal. Garratt 1900, 3-4,000,000 gal. L-D-G 1901 all hor. comp. c. & f. wh., 3-3,000,000 gal. hor. comp. link block f. wh. Evans 1898, 1-1,500,000 gal. hor. comp. twin tandem d. act. Dow 1908, 1-21,000,000 gal. R. D. W. 1912, 1-10,000,000 gal. Krogh 1913, 1-10,000,000 gal. Krogh 1909, 1-15,000,000 gal. B. J. 1913, 2-10,000,000 gal. ea. B. J. 1913 hor. centrifugal d. con. to elec. motors; air compressor, L-D-G 1912 driven by elec. motor; elec. motors, 800-hp. 4000 v. 3 ph. Crocker-Wheeler 1912, 100-hp. 2200 v. 3 ph. G. E. 1913, 250-hp. 2200 v. 3 ph. Crocker-Wheeler 1912, 75-hp. 2000 v. 3 ph. 1909, 2 500-hp. ea. 2200 v. 3 ph. G. E. 1913, 400-hp. 2200 v. 3 ph. G. E. 1913; elec. energy from Pacific Gas & Elec. Co.; pumping direct & to reservoirs, 6-90,700,000 gal. & tanks, 3 (1895, 1894, 1903) 4,400,000 gal.

Pipe, 435.45 mi. 3 to 44-in. c. i., w. i. & riveted steel; hyd. 4366; valves, 3650 r. h. opening local makers; meters, 18,000 mostly Thomson & Neptune; av. daily cons. 39,374,000 gal.; serv. con. 64,493; ord. pres. 10 to 135 lb., fire pres. 125 to over 300 lb.

Rates; flat, 78c. mo., bath 37c., closet 25c.; meter, min. charge $1.80 mo. 720 cu. ft., 25c. 100 cu. ft. max., 12c. min.

PACIFIC GAS AND ELECTRIC COMPANY. Office, 445 Sutter St.
Pres., Frank G. Drum.....San Francisco
V. Pres. & Gen. Mgr.,
John A. Britton..... " "
2d V. Pres. & Treas.,
A. F. Hockenbeamer..... " "
3d V. Pres., J. E. Gladstone..New York
Sec. D. H. Foote.....San Francisco
Pur. Agt., J. H. Hunt..... " "

Owns three pumping districts supplying water to Dixon, Livermore & Stockton. Owns the Placer Water District which supplies Auburn & Rocklin & the suburban territory surrounding Lincoln, Loomis, Newcastle & Roseville. Sells water to Grass Valley & Nevada City. A number of small towns are supplied by gravity from their irrigation ditches.

CROCKER ESTATE CO. Office, 525 Crocker Bldg. Supplies Daly City & Merced. For officers, see Daly City & Merced.

CALIFORNIA-OREGON POWER COMPANY. Office, 131 Leidesdorff St. Supplies Dunsmuir and Yreka. For officers, see Dunsmuir.

NATOMAS WATER CO. Office, 808 Alaska Commercial Bldg. Supplies Folsom. For officers, see Folsom.

OROVILLE WATER CO. Office, Sharon Bldg. Supplies Oroville & Thermalito. See Oroville for officers.

SIERRA AND SAN FRANCISCO POWER CO. Office, 85 Second St. (Controlled by United Railways Investment Co., 25 Broad St., New York, N. Y. For executive officers, see New York.) Supplies Jamestown, Sonora & Tuolumne. For officers, see Sonora.

COAST VALLEYS GAS AND ELECTRIC CO. Office, 58 Sutter St. (Controlled by United Railways & Investment Co., 25 Broad St., New York, N. Y. For executive officers, see New York.) Supplies King City & Salinas. For officers, see King City.

BEAR GULCH WATER CO. Office, 452 Mills Bldg. Supplies Menlo Park. For officers, see Menlo Park.

THE MONTEREY COUNTY WATER WORKS. Office, Croker Bldg. Supplies Monterey & adjoining town of Carmel, Del Monte, Pebble Beach & Pacific Grove. See Monte, Pebble Beach & Paciffic Grove. See Monterey for officers.

HERCULES WATER CO. Office, 1025 Chronicle Bldg. Supplies Pinole. See Pinole for officers.

PLACERVILLE WATERWORKS. Office, 464 California St. See Placerville.

PORT COSTA WATER COMPANY. Office, Insurance Exchange Bldg. Supplies Concord, Crockett, Fairview, Port Costa, Selby & Tormey.

ANTELOPE CREEK & RED BLUFF WATER CO. Office, 14 Montgomery St. See Red Bluff.

NORTHERN CALIFORNIA POWER CO., COUSOLIDATED. Office, 995 Market St.
Pres., H. H. Noble.....San Francisco
1st V. Pres., A. S. Carman... " "
2d V. Pres. & Mgr.,
E. V. D. Johnson..... " "
Sec. & Pur. Agt.,
Edward Whaley..... " "
Controls Redding Water Co., supplies Redding; Willows Water & Light Co., supplies Willows.

ROSEVILLE WATER COMPANY. Office, 512 Folsom St. Supplies Roseville.

MARIN WATER & POWER COMPANY. Office, 1210 Flood Bldg. Supplies Ross, San Anselmo, San Rafael & Sausalito. For officers, see San Rafael.

WILLETS WATER & POWER CO. Office, 1216 Flood Bldg. Supplies Willits.

SAN JACINTO, 898.

MUNICIPAL.
Pres. Trustees, G. Tanner.....San Jacinto
City Clerk, George Grover..... " "
City Treas., D. I. Inwall..... " "
Wells, 3 6-in.; ½ mi. from center business section; reservoir, 9,000 gal.

Boilers, brick; oil fuel; pumps, 1-1,296,000 gal. centrifugal driven by distillate engine, 30-hp., 1-1,296,000 gal. comp. duplex Deane Worth.; pumping direct & to elev. tank, 50,000 gal. wood.

Pipe, 4 to 10-in. rivetted steel; hyd. 18, hose con. 2-in. & 2½-in.; av. daily cons. 150,000 gal.; ord. pres. 18 lb.

SAN JOSE, 28,946.

SAN JOSE WATER CO. Supplies Los Gatos and Saratoga.
Pres., Joseph R. Ryland.....San Jose
V. Pres., Geo. W. Cozzens..... " "
Sec., Treas. & Pur. Agt.,
H. S. Kittredge..... " "
Supt., O. S. Ralph..... " "
Engr. P'g. Sta., A. W. Hess..... " "
Impounding reservoirs, 4-300,000,000 gal. & wells, 24 7 to 16-in. 180 to 1100 ft. deep; ½ mi. from center business section; no purification.

Boilers, 2 return tubular 125-hp. 150 lb. Kewanee 1907, 4 return tubular 75-hp. 100 & 120 lb. California 1908 & 1913; oil fuel; pumps, 1-3,000,000 gal. hor. comp. c. & f. wh. Holly 1896, 1-1,000,000 gal. hor. duplex d. act. Snow 1898, 1-1,000,000 gal. hor. duplex d. act. Hughes 1898, 4-1,500,000 gal. hor. B. J. 1914, 2-1,800,000 gal. hor. B. J. 1913, 2-1,500,000 gal. hor. Bean 1911, 1-800,000 gal. hor. B. J. 1913, driven by elec. motors, 4 75-hp. 440 v. 3 ph. 60 cys. Allis-C 1914, 2 100-hp. 440 v. 3 ph. 60 cys. Crocker Wheeler 1913, 2 75 & 100 hp. 440 v. 3 ph. 60 cys. Allis-C 1911, one 30-hp. 220 v. 3 ph. 60 cys. G. E. 1913; air compress. 800 cu. ft. Dow 1914, driven by steam engine.

Pumps from wells and gravity distribution from reservoirs, 7 21,123,000 gal.; pipe, 175 mi. 1½ to 18-in. c. & w. i.; hyd. 469; valves, 1509 r. h. opening Crane & Garrett; meters, 6774 National; av. daily cons. 6,000,000 gal.; serv. con. 12,326; ord. pres. 45 to 68 lb.

Rates; flat, 70c. mo., bath 15c., closet 40c.; meter, 90c. mo. 4000 gal., 20c. 1000 gal. max., 12c. min.

SAN LEANDRO, 3,471.

Supplied by the system of the Peoples Water Co. See Oakland.

SAN LUIS OBISPO, 5,157.

MUNICIPAL.
Mayor, A. McAllister.....San Luis Obispo
Comr. Pub. Wks.,
A. Luchessa..... " " "
Comr. Pub. Supplies,
George Hanson..... " " "
City Clerk,
Mrs. C. B. Bridges..... " " "
Impounding reservoirs, 2-8,000,000 gal.; 2 mi. from center distribution & wells, 5 12-in. 40 ft. deep within city limits.

Pumps, 1-504,000 gal. centrifugal driven by gasoline engines, 1-504,000 gal. driven by elec. motor, 1-1,440,000 gal. centrifugal

driven by elec. motors, 1-504,000 gal. duplex driven by elec. motor; pumping to reservoirs, above.

Pipe, 6 to 14-in.; ord. pres. 50 to 100 lb.

SAN MATEO, 4,384.

BEAR VALLEY WATER CO.

Supt., W. B. Lawrence.....San Mateo

Supplied by the Spring Valley Water Co., of San Francisco. See San Francisco. This supply empties in reservoir, 3,000,000 gal.; one mi. from center business section.

Pumps, 1-1,440,000 gal. triplex Dow, 1-1,080,000 gal. hor. double act. both belted to elec. motor, 50-hp.; gravity distribution from reservoir, above, and pumping direct.

Pipe, 6 to 11-in.; hyd. 117; ord. pres. 47 lb.

MUNICIPAL. High pressure fire system.

Pres. Trustees, M. J. Powers....San Mateo
City Clerk, Elma F. Early..... " "

SAN MIGUEL, 500.

GORHAM WATER CO.

Mgr., T. P. Gorham.....San Miguel

Wells, near center distribution.

Pumps, 1-47,500 gal. driven by gasoline engine, 5-hp.; pumping to reservoirs, 2-170,000 gal.

Pipe, 2 to 8-in.; hyd. 11, hose con. 2-in.

SAN PEDRO, 4000.

MUNICIPAL.

Owned by City of Los Angeles. Supplies Wilmington.

Mgr., C. E. Outcalt.....San Pedro
Supt., Wm. Mulholland..... " "
Asst. Supt., Thos. Brooks..... " "
Auditor, L. M. Anderson..... " "
Ch. Engr. P'g. Sta., Fred J. Fisher " "
Supt. Meters & Service, Geo. Read " "

Wells, 5 10-in. 870-ft. deep; located in Wilmington 5 mi. from reservoir in San Pedro; no purification.

Boilers, 2 fire-tube 100-hp. ea. Atlas (old), 2 water-tube 250-hp. ea. Sterling; oil fuel; pumps, two 800,000 gal. ea. Worthington (old), one 4,000,000 Alles C.; air compressors, two L-D-G, one Blake; pumping direct and to reservoir, 2,387,000 gal.

Pipe, 38½ mi. 4 to 30-in. c. i.; hyd. 112, hose con. 2½-in.; av. daily cons. 1,750,000 gal.; sew. con. 2645; ord. pres. 20 to 90 lb.; fire pres. same.

SAN RAFAEL, 5,934.

MARIN WATER & POWER COMPANY.

Office, 1210 Flood Bldg., San Francisco. Supplies Ross, San Anselmo & Sausalito.

Pres., A. W. Foster, Jr.....San Francisco
V. Pres., George A. Newhall.. " "
Sec., E. Scott..... " "
Treas., A. W. Foster..... " "

SANGER, *1,500.

SANGER WATERWORKS. (Owned partly by city and partly by Sanger Lumber Co.)

Mgr., Frank Kummeth.....Sanger

Wells & ponds, 600,000 gal.

Boilers, 125 lb. pressure; pumps, 1-1,080,000 gal. Underwriters', 1-720.000 gal. Underwriters', 1-432,000 gal. centrifugal driven by elec. motor; pumping direct & to elev. tank, 20,000 gal.

Pipe, 4 & 6-in.; hyd., hose con. 2-in.; av. daily cons. 50,000 gal.; ord. pres. 30 lb., fire pres. 125 lb.

SANTA ANA, 8,429.

MUNICIPAL.

Mayor, Frank Ely.....Santa Ana
Comr., George McPhee..... " "
" L. Grubb..... " "
Supt., Ransom Reid..... " "

Wells; boilers, 3 hor. tubular 100-hp. 125 lb. Pennsylvania 1899, 3 200-hp. 150 lb. Heine 1905, one 300-hp. 150 lb. Gay 1915; oil fuel; pumps, 2-1,000,000 gal. hor. comp. d. act. Worth. 1891, 3-4,000,000 gal. hor. comp. Risdon 1905; air compressor, one 500 cu. ft. L-D-G 1904, 2 1000 cu. ft. Murray 1908; elec. motors, 50 & 60-hp. F. M. 1914; purchase energy from Southern California Edison Co.; pumping direct & to reservoirs, 2-6.000,000 gal.

Pipe, 40 mi. 2 to 20-in. c. i.; hyd. 205, hose con. 2½-in. California, Kupferle & Rensselaer; valves, 60 l. h. opening various; meters, 3400 various; av. daily cons. 2,210,956 gal.; serv. con. 3700; ord. pres. 50 lb., fire pres. same.

Rates; meter, $1 mo. 1000 cu. ft.

SANTA BARBARA, 11,659.

MUNICIPAL.

Pres. Comrs.,
George S. Edwards.....Santa Barbara
Comr., Frank E. Kellogg.... " "
Sec., J. M. Warren..... " "
Supt., V. E. Trace..... " "

Infiltration tunnel; 5 mi. from center distribution; impounding reservoirs, 3-3,500,-000 gal.; no purification.

Gravity distribution.

Pipe, 60.2 mi. 4 to 18-in. c. i.; hyd. 258, hose con. 2½-in. Kupferle & Rensselaer; valves, 225 r. h. thd. Crane & Nat'l Tube; meters, 2796 various; av. daily cons. 2,000,-000 gal.; serv. con. 4000; ord. pres 50 to 140 lb., fire pres. 125 lb.

Rates: flat, min. $1.00 mo.; meter, min. charge $1.00 mo. 5000 gal., $1.00 5000 gal. max., 10c. 1000 gal. min.

SANTA CLARA, 4,348.

MUNICIPAL.

Supt., James I. Dixon.....Santa Clara
Acc't., H. C. Nicholls..... " "

Artesian wells, 8 14-in. 375 to 600 ft. deep; settling basin, 18x33 ft.

Boilers, 3 hor. water-tube, one 125-hp., 2-70-hp. ea. Kewanee; hand stoking; pumps, 1-2,880,000 gal., 2-1,728,000 gal. Worth., one centrifugal American driven by steam engine, 75-hp. Ames; elec. motor, one 440 v. 61 amp. 3 ph. 60 cys. Westg.; elevated tank, 90 ft. high 125,000 gal. steel.

Hyd. 75, hose con. 4-in.; av. daily cons. 1,500,000 gal.; serv. con. 1300; ord. pres. 40 lb., fire pres. 100 lb.

Rates: flat, min. $1.00 mo.

SANTA CRUZ, 11,146.

MUNICIPAL.

Mayor, T. W. Duillard.....Santa Cruz
Comr. Pub. Wks., J. T. Jones.. " "
Comr. Health & Safety,
F. R. Howe..... " "
Supt., R. S. Tait..... " "

Springs; one mi. from center distribution; impounding reservoir, 60,000 gal.

Gravity distribution

Pipe, 30 mi. 4 to 12-in, c. i.; hyd. 240, hose con. 2½-in. California; valves, 600 l. h. thd. Crane & Roe Stephens; meters, 1536 Neptune & National; av. daily cons. 2,000,000 gal.; serv. con. 3250; ord. pres. 70 to 85 lb., fire pres. same.

Rates: flat, 75c. mo., meter, min. charge 50c. mo. 5000 gal., 5c. 1000 gal.

SANTA MARIA, 2,260.

SANTA MARIA WATERWORKS. (Privately owned.)

Owner & Mgr., R. Hart.....Santa Maria

Wells, 2 8-in. 170 ft. deep; near center business section.

Pumps, 2-2,160,000 gal. triplex Deming driven by steam engines, 2 50-hp. Atlas, 1-360,000 gal. steam; pumping direct & to elev. tanks, 2-50,000 gal.

Pipe, 4 to 8-in.; hyd. 54, hose con. 2½-in.; av. daily cons. 100,000 gal.; ord. pres. 85 lb., fire pres. 100 lb.

SANTA MONICA, 7,847.

SANTA MONICA WATER CO.

Pres., R. C. Gillis.....Santa Monica
V. Pres. & Gen. Mgr.,
G. C. Pierce..... " "
Sec., M. Freeman..... " "
Supt., W. S. Dole..... " "

Wells, 8 16-in. 280 ft. deep; 3 mi. from center distribution; no purification.

Pumps, 4-2,880,000 gal. B. J. & Church; elec. motors, 2 80 kw. 220 v. & 2200 3 ph. 60 cys. G. E.; pumping to reservoirs, 3-2,500,000 gal.

Pipe, 50 mi. 4 to 12-in. c. & w. i.; hyd. 189, hose con. 2½ & 4-in. Keystone & Rensselaer, valves, 178 Crane & Rensselaer, meters, 2138 National, Pittsburgh & Neptune; av. daily cons. 1,150,000 gal.; serv. con. 2175; ord. pres. 20 to 110 lb., fire pres. same.

Rates: meter, $1.50 1000 cu. ft. max., $1.00 min.

SANTA PAULA, 3,216.

SANTA PAULA WATERWORKS. (Privately owned.)

Sec., Leon Pressy.....Santa Paula

Santa Paula Creek; 3 mi. from center business section.

Gravity distribution from reservoir, 3,000,000 gal.; pipe, 4 to 14-in.; hyd. 43, hose con. 2½-in.; meters, 580; ord. pres. 87 bl.

SANTA ROSA, 7,817.

SANTA ROSA WATERWORKS. (Privately owned.)

Pres., Mark L. McDonald, Jr....Santa Rosa
V. Pres. & Treas.,
S. Chamberlain.....San Francisco
Sec., Arthur S. Luce.....Santa Rosa

Impounding reservoir, 6,000,000 gal.

Gravity distribution from reservoir, above; pipe, 4 to 12-in.; hyd. 25, hose con. 2½-in.; ord. pres. 40 lb.

MUNICIPAL.

Mayor, Don L. Mertier.....Santa Rosa
City Clerk, H. B. Snyder..... " "
City Treas., H. W. Beardin..... " "

Artesian well & infiltration tunnel, 45 ft. deep.

Boilers, 2 50-hp.; oil fuel.

Pumps, 2-1,225,000 gal. centrifugal Price d. con. to elec. motors, 2 55-hp. Westg., 2-432,000 gal. comp. Perkins; pumping to reservoir, 770,000 gal.

Pipe, 4 to 12-in.; hyd. 162, hose con. 2½-in.; av. daily cons. 1,000,000 gal.; ord. pres. 60 lb.

SARATOGA.

Supplied by San Jose Water Co. See San Jose.

SAUSALITO, 2,383.

MUNICIPAL.

Pres., E. B. Daraty.....Sausalito
Town Clerk, J. P. Murphy..... "
Town Treas., J. K. Ross..... "

Lake Lagunitas; 11 mi. from center business section.

Pumps, 2-288,000 gal. triplex Worth. belted to gasoline engine & elec. motor, 30-hp.

Gravity distribution from tanks, 5-1,430,000 gal.

Pipe, 4 to 18-in.; hyd. 150, hose con. 2½-in.; av. daily cons. 500,000 gal.; ord. pres. 80 lb.

SAWTELLE, 2,143.

SAWTELLE WATER COMPANY.

Office, 802 Ferguson Bldg., Los Angeles.
Pres., R. C. Gilles.....Los Angeles
Sec., C. H. Merrill.....Santa Monica

Supplied water for domestic use only.

CRYSTAL SPRINGS WATER COMPANY.

Office, 123 Third St.
Pres., J. M. Pruden.....Sawtelle
Sec., Miss G. M. Williams..... "

Wells; near center business section.

Pump, 1-216,000 gal. driven by elec. motor, 1-288,000 gal. B. J. driven by elec. motor; pumping to elev. tank, 23,000 gal. wood.

Pipe, 2 to 5-in.; hyd. 22, hose con. 2-in.

SEBASTOPOL, 1,233.

MUNICIPAL.

Supt., H. B. Scudder.....Sebastopol

Wells, 2 6 to 8-in. 46 to 400 ft. deep; no purification.

Pumps, 2-192,000 gal. Union, belted to gasoline engine, 50-hp. Corliss; elec. motors, 50-hp. 2000 v. 3 ph. 60 cys. Westg.; purchase energy from Pacific Gas & Electric Co.; pumping to reservoir, 210,000 gal.

Pipe, 4.5 mi. w. i.; hyd. 46, hose con. 3-in. United Iron Works; valves, 69 r. h. thd. Crane; meters, 406 Columbian, Neptune, & King; av. daily cons. 1,000,000 gal.; serv. con. 465; ord. pres. 35 to 55 lb., fire pres 110 lb.

Rates; meter, 50c. mo., 20c. 1000 gal.

SELMA, 1,750.

SAN JOAQUIN LIGHT & POWER CORPORATION. Office, Los Angeles.

Pres., A. C. Balch.....Los Angeles
V. Pres., W. G. Kirckhoff..... " "
Sec., L. M. Farnam..... " "
Gen. Mgr., A. J. Wishon.....Fresno
Pur. Agt., J. H. Newlin..... "
Supt., A. M. Frost.....Selma

Wells, 5 14-in. 200-ft. deep; near center business section; no purification.

Pumps, 4 6-in. hor. centrifugal B. J. 1900 d. con. to elec. motors, 4 35-hp. ea. 220 v. 3 ph. 60 cys. G. E. 1900; elec. energy from San Joaquin Light & Power Corpn.; pumping direct & to elev. tank (1895) 60,000 gal. wood.

Pipe, 15 mi. 4 to 8-in. w. i.; hyd. 25, hose con. 2½-in.; meters, none; av. daily cons. 625,000 gal.; serv. con. 600; ord. pres. 50 to 75 lb., fire pres. same.

Rates; flat, $1.65 mo., bath 25c., closet 25c.; meter, min. charge $1 mo. 60,000 gal.; 15c. 1000 gal. max., 5c. min.

SIERRA MADRE, 1,303.

MUNICIPAL.

Chm. Comrs., J. C. Pigler....Sierra Madre
Comr., John G. Blumer..... " "
" L. E. Steinberger.... " "
" L. Dietz..... " "
" J. M. Beard..... " "
City Engr., W. F. Bixby..... " "
Supt. & Ch. Engr. P'g. Sta., Franklin Biederman..... " "

Infiltration tunnels and wells, one 5x7 ft. 136 ft. with 12-in. in bottom, total 360 ft. deep, one 6x6 ft. 180 ft. deep; one mi. from center distribution; reservoirs, 2-1,475,000 gal.; no purification.

Pipe, 11.7 mi. 4 to 12-in c. i. & steel; meters, 612 various; av. daily cons. 52,000 gal.; serv. con. 612; ord. pres. 50 to 120 lb., fire pres. same.

Rates: flat, none; meter, min. charge $1.25 500 cu. ft., 5c. 100 cu. ft.

SIERRAVILLE, *500.

SIERRA VALLEY WATER COMPANY. Recently organized to convey the waters of the Little Truckee River into Sierra Valley for irrigation and domestic use.

Supt., A. S. Nichols.....Sierraville
Cons. Engr., George F. Taylor. Brandy City
Atty., Frank R. Wehe, 847 Monadnock Blk, San Francisco

Little Truckee River, 10 mi. from center distribution.

Gravity distribution.

SISQUOC.

PINAL DOME OIL COMPANY. Office, Santa Maria.

Pres. & Mgr., J. F. Goodwin..Santa Maria
Sec., George P. Merriott..... " "
Treas., Paul O. Tretzer..... " "
Cons. Engr., M. A. Kerr..... " "
Chemist, Paul W. Prutzman.. " "

Well, 6x8 ft., 53 ft. deep with 12-in. 121 ft. total; no purification.

Boilers, 2 tubular 70-hp. ea., 2 tubular 45-hp ea. oil well; natural gas fuel; pumps, two F. M. d. con. to gasolene engine, 12-hp. F. M.; pumping direct and to tanks, 40 ft. high 3000 gal wood.

Meters, 9 Worth. and Neptune.

SONOMA, 957.

Owned by a private company.

Springs; ½ mi. from center business section; reservoir, 160,000 gal.

Pumps, 2 centrifugal driven by elec. motor, 25-hp. & gas engines, 60-hp.; pumping to reservoir, 75,000 gal. concrete & elev. tanks, 2-50,000 gal.; also gravity distribution from reservoir, 210,000 gal.

Pipe, 6-in.; hyd., hose con. 2½-in.; ord. pres. gravity 6 lb., pumping 55 lb.

SONORA, 2,029.

SIERRA & SAN FRANCISCO POWER CO. Office, 85 Second St., San Francisco. (Controlled by United Railways Investment Co., 25 Broad St., New York, N. Y.)

Pres., Geo. W. Bacon.....New York, N. Y.
V. Pres., C. N. Black, 58 Sutter St.....San Francisco
V. Pres. & Gen. Mgr., H. F. Jackson..... " "
Sec. & Treas., F. J. Blanchard, 58 Sutter St..... " "
Cons. Engrs., Ford, Bacon & Davis, 115 Broadway, New York, N.Y.
Loc. Mgr., W. F. King.....Sonora

South Fork of Stanislaus River; 18.25 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 4-982,000 gal.; pipe, 19.84 mi. 4 to 30-in. metal; hyd. 55, hose con. 3-in. Garrett; valves, 28 r. & l. h. thd. Crane; meters, none; serv. con. 458; ord. pres. 30 to 80 lb., fire pres. 30 to 150 lb.

Rates; flat, $1 mo., bath 25c., closet 25c.

SOUTH PASADENA, 4,649.

Supplied by Pasadena.

SOUTH SAN FRANCISCO, 1,989.

SOUTH SAN FRANCISCO WATER CO.

Sec. & Treas., George H. Chapman....So. San Francisco

Wells, 6; one mi. from center business section.

Boiler, one; oil fuel; pumps, 1-1,080,000 gal. steam Worth., 2-900,000 gal. deep well triplex belted to elec. motor, 75-hp., 2-792,000 gal. centrifugal belted to elec. motor, above; pumping direct & to reservoir, 1 500,000 gal. concrete.

Pipe, 3 to 12-in.

STOCKTON, 23,253.

PACIFIC GAS & ELECTRIC CO. Office, 445 Sutter St., San Francisco. For executive officers see San Francisco.

Supt., J. W. Hall .....Stockton

Artesian wells, 25 12 to 20-in. 220 to 1100 ft. deep; impounding reservoir, 1,500,000 gal.; no purification.

Boilers, 8 tubular 80-hp. ea. various; oil fuel; pumps, 3-6,000,000 gal. Allis C., 2-4,000,000 gal. B. J., 1-2,000,000 gal. Snow, one centrifugal 250-hp. driven by elec. motor and steam turbine; elec. motors, 2 440 v. 3 ph. 60 cys. Bullock; pumping direct.

Pipe, 34.7 mi. 4 to 20-in. c. i.; hyd. 266, hose con. 2½-in. various; valves, 413 r. & l. thd. various; meters, 751 various; av. daily cons. 5,850,000 gal.; serv. con. 6900; ord. pres. 40 to 50 lb., fire pres. same.

Rates: flat, 70c. mo., bath 15c., closet 15c.; meter, 25c. max., 10c. min.

SUISUN, 641.

MUNICIPAL.

Supt., John A. Wilson .....Suisun

Wells, 2 12-in. 187 to 287 ft. deep; chemical, lime.

Pumps, 2-360,000 gal. Stockton driven by gas engines, 12-hp. Sampson & elec. motor, 25-hp.; elec. energy from Pacific Gas & Elec. Co.; pumping to reservoir, 450,000 gal.

Pipe, 3 mi. 8-in. c. i.; hyd. 27, hose con. 2½-in. Crane; meters, 50 Neptune; av. daily cons. 250,000 gal.; serv. con 270; ord. pres. 40 lb., fire pres. 65 lb.

SUNNYVALE, 850.

MUNICIPAL.

Comr., Fred Deveritt.....Sunnyvale
Supt. & Ch. Engr. P'g. Sta.,
W. J. Coates..... "

Well, one 12 to 16-in. 365 ft. deep; impounding reservoir, 250,000 gal., no purification.

Pumps, 720,000 gal. Hendy driven by elec. motor, 50-hp. 3 ph.; pumping to standpipe (1915) 22½ ft. in diam. 85 ft. high, iron.

Hyd. 48, hose con. 2½-in. Hendy; valves, r. h. thd.; meters, 38 Neptune; av. daily cons. 150,000 gal.; serv. con. 275; ord. pres. 12 to 20 lb., fire pres. 90 lb.

Rates: flat, min. $1.00 mo.; meter, 15c. 1000 gal.

SUTTER CREEK, 1,500.

SUTTER & AMADOR WATERWORKS. Supplies Amador.

Owner, P. R. Downs.....Sutter Creek

Gravity distribution from reservoirs, 2-4,000,000-gal. Supplied from the ditches of the Blue Lake Water Company.

Pipe, 3 to 15-in.; hyd. 50, hose con. 2-in.; ord. pres. 100 lb., fire pres. 200 lb.

SYCAMORE CANON, *60.

SYCAMORE CANON WATER COMPANY OF SAN RAFAEL.

Pres., G. W. Sanford, R. F. D. No. 1, Garvanza Sta., Los Angeles
Sec. Elmer Brown..... " "
Treas. R. V. Griffon..... " "

Infiltration galleries, 3, 40 to 200 ft. long; 1½ mi. from center distribution; reservoir, 120,000 gal.; no purification.

Gravity distribution.

Pipe, 1½ mi. 4-in steel; hyd, none; valves, 3 r. h. thd.; meters, none; serv. con. 20.

TAFT, *2,500.

Supt., J. S. Worley.....Taft
Cons. Engr., W. A. Fischer..... "

Buy water from Western Water Co., Office, Bakersfield; no purification.

Pumps, none; water bought under pressure; tank (1911) 10 ft. high, iron.

Pipe, 1½ mi. 2 & 3-in. galv. iron; hyd. none; meters, 80 National; av. daily cons. 13,000 gal.; serv. con. 80; ord. pres. 60 to 70 lb., no fire service.

Rates: $1.66 1000 gal.

CONSUMERS WATER CO.

Pres., T. Hall.....Taft
Sec., T. M. Young..... "
Cons. Engr., W. A. Fischer..... "

Buy water from Western Water Co. Office, Bakersfield.

Pipe, 6 mi. 2 to 4-in.; hyd, none; meters, 400 National, Neptune & Pittsburgh; av. daily cons. 43,000 gal.; serv. con. 400; ord. pres. 60 to 70 lb., fire pres. 100 lb. furnishes to separate munic fire lines.

Rates: meter, $1.42 1000 gal.

TEHAMA, *500.

TEHAMA WATER WORKS.

Mgr., John Simpson.....Tehama

Sacramento River; 6 to 8 blocks from center distribution; no purification.

Pump, 1-576,000 gal. Goulds; elec. motor, 3-hp. 120 v. 3 ph. Westg.; pumping to tank, 40 ft. high, 10,000 gal. iron.

Pipe, 1 mi. 4 to 12-in.; hyd. 2; valves, none; av. daily cons. 20,000 gal.; serv. con. 100; ord. pres. 17 to 25 lb., fire pres. same.

THERMALITO, 73.

Supplied by ORO WATER, LIGHT & POWER CO. See Oroville.

TORRANCE, *250.

TORRANCE WATER, LIGHT & POWER COMPANY.

Office, 111 W. 4th St., Los Angeles.

Sec., Roy Bradley.....Los Ange le
s

Wells; 4 mi. from center business section; also by water from Dominguez Water Company.

Pumps, 2 centrifugal Jackson-Church driven by elec. motors; pumping direct & to reservoir, 24,000,000 gal.

Pipe, 4 to 12-in.; hyd. 52, hose con. 2½ & 4-in.

TRACY, 2,200.

MUNICIPAL.

Mayor, D. R. Payne.....Tracy
Clerk, G. Frearich..... "
Supt., L. Sullivan..... "

Wells, 2, 12-in. 200 & 300 ft. deep; no purification.

Pump, 1,008,000 gal. B. J.; elec. motor, 50-hp. 2200 v. 3 ph. 60 cys. Western; pumping direct for fires and to elevated tank, 12 ft. in diam. 96 ft. high, steel.

Pipe, 6 mi. 4 & 6-in. c. i.; hyd. 42, hose con. 3-in.; valves, r. h. thd.; meters, 250 Neptune; av. daily cons. 175,000 gal.; serv. con. 250; ord. pres. 56 lb., fire pres. 80 lb.

Rates: meter, $1.50 for 10,000 gal.

TRINIDAD, 250.

TRINIDAD WATER & SUPPLY CO.

Pres., C. A. Kallstrom.....Trinidad
V. Pres., G. M. Scott..... "
Sec. & Treas., Emma Scott..... "

Mill Creek; 1½ mi. from center distribution.

Serv. con. 30; ord. pres. 50 lb.

Rates: flat, $1.00 mo.; meter, 40c. 1000 gal. max., 20c. min.

TROPICO, 350.

GLENDALE CONSOLIDATED WATER CO.

Supt., Arthur Campbell.....Tropico

Wells, 2 6-in. & a portion of the Verdugo Canyon Water Companies supplied; one mi. from center business section; reservoir, 1,500,000 gal.

Pumps, 2-1,440,000 gal. Church driven by gasoline engine, 2 40-hp.; pumping direct & to reservoirs, above.

Pipe, 4 to 12-in. rivetted steel; hyd. 11, hose con. 2½-in.; ord. pres. 40 lb.

TRUCKEE, 1,600.

MCGLASHAN WATER CO.

Mgr., C. P. McGlashan.....Truckee

Springs & infiltration tunnels; ¼ mi. from center business section.

Gravity distribution; pipe, 4 to 11-in.; hyd. 24, hose con. 2½-in.

TULARE, 2,758.

MUNICIPAL.

Supt., Xavier F. Raspiller.....Tulare
Cons. Engrs.,
Sloan & Robinson.....San Francisco
Engr. P'g. Sta., Oscar Yeager.....Tulare

Artesian wells, 4, 10-in. 400 to 520 ft. deep.

Pumps, 4-1,080,000 gal. Platt driven by elec. motor, 3 ph. 60 cys. G. E.; pumping direct and to tank (1913) 132½ ft. high 150,000 gal. steel.

Pipe, 17 mi. 4 to 12-in.; hyd. 158, hose con. 2½-in. Grunberg; valves, 500 r. h. thd. Crane; meter, 50 Worth. Neptune and Thomson; av. daily cons. 1,300,000 gal.; serv. con. 800; ord. pres. 48 to 55 lb., fire pres. 80 to 125 lb.

Rates: flat, min. $1.00 mo.; meter, 20c. 1000 gal. max., 10c. min.

TUOLUMNE, 1,200.

SIERRA & SAN FRANCISCO POWER CO.

Office, 85 Second St., San Francisco.

For executive officers, see Sonora. (Controlled by United Railways Investment Co., 45 Broad St., New York, N. Y.)

Local Mgr., W. S. King.....San Francisco

For supply and method of distribution, see Sonora.

Hyd. 37, hose con. 3-in. Crane; valves, 5 r. h. thd. Eddy; serv. con. 230; ord. pres. 40 to 84 lb., fire pres. same.

Rates; flat, $1.15 mo., bath 25c., closet 50c.

TURLOCK, 1,573.

MUNICIPAL.

Pres. Trustees, H. S. Crane.....Turlock
City Clerk, A. C. Elmore..... "
City Treas., John A. Rapp..... "
Supt., G. H. Tabur..... "

Wells, 8 tubular; near center distribution.

Pumps, 1-1,132,000 gal. turbine driven by elec. motor, 100-hp., 1-3,160,000 gal. centrifugal B. J. driven by elec. motor, 100-hp., 1-648,000 gal. centrifugal driven by elec. motor, 55-hp.; gasoline engines, 100-hp.; pumping to elev. tanks, 2-60,000 gal. ea. steel.

Pipe, 4 to 10-in.; hyd. 85, hose con. 2½-in.; ord. pres. 40 lb., fire pres. 65 to 100 lb.

UKIAH, 2,136.

UKIAH WATER & IMPROVEMENT CO.

Pres., J. H. Brush.....Santa Rosa
Sec., F. A. Brush..... " "
Supt., M. W. Donohoe.....Ukiah
C. Engr. P'g. Sta., N. Beckley..... "

Wells, 2, 6 ft. in diam. 16 ft. deep; 1 mi. from center distribution; no purification.

Boiler, 50-hp.; hand stoking; pumps, 1-720,000 gal. steam Price, one centrifugal 1,200,000 gal. Price driven by elec. motor, 75-hp. 2080 v. 3 ph. 60 cys. G. E.; pumping direct and to reservoir, 200,000 gal.

Pipe, 5 mi. 4 to 12-in. c. i; hyd. 40, hose con. 2½-in. various; meters, 160; av. daily cons. 500,000 gal.; serv. con. 650; ord. pres. 75 to 85 lb.; fire pres. same.

Rates: flat, $1.00 mo; meter, min. charge 50c. mo. 5000 gal., 10c. 1000 gal.

UPLAND, 2,384.

UPLAND WATERWORKS. (Privately owned.)

Streams in San Antonio Canyon & wells; 6 mi. from center business section.

Gravity distribution from reservoirs, 2-90,000 gal. ea.; pipe, 2 to 10-in.; hyd. 51, hose con. 2 & 2½-in.; ord. pres. 35 to 55 lb.

VACAVILLE, 1,177.

VACAVILLE WATER & LIGHT CO.

Pres., T. L. Gates.....Vacaville
Sec. & Mgr., Wm. McBride..... "
Treas., Mrs. S. W. English..... "

Wells, 19, 12-in. 60 ft. deep; ¼ & 1 mi. from center distribution; no purification.

Pumps; 3 Krogh; elec. motors, 30 kw. 110 v. 3 ph. 60 cys. G. E.; pumping direct and to reservoir, 120,000 gal.

Pipe, 3 mi. 4 to 12-in; hyd. 30, hose con. 2½-in.; meters, 100 Neptune; av. daily cons. 200,000 gal.; serv. con. 390; ord. pres. 35 lb., fire pres. same.

Rates: flat, $1.50 mo.

VALLEJO, *15,000.

MUNICIPAL.

Mayor, W. J. Tormey.....Vallejo
Supt. & Des. Engr., L. Thompson .. "
Comr. Pub. Wks., Geo. H. Warford. "
" " " Wm. P. Blake... "
City Clerk, Alfred E. Edgcumbe.... "

Impounding reservoirs, 2-1,002,742 gal.; 20 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 2-14,638,000 gal.; pipe, 20 mi. 14 & 16-in. c. i.; hyd. 160, hose con. 2½-in. various; meters, 1500 Neptune, National, Thomson & Worth.; av. daily cons. 1,000,000 gal. 100%; serv. con. 2721; ord. pres. 80 lb.

Rates; flat, $1 mo.; meter, min. charge $2.25 quarter 1500 cu. ft., 15c. 100 cu. ft.

VALONA.

Supplied by the Port Costa Water Co. See Crockett.

VENTURA, 2,945.

VENTURA COUNTY POWER COMPANY.

Office, 405 D St., Oxnard.
Mgr., S. W. Hunter.....Oxnard

Ventura River & artesian wells, 3; 4 mi. from center business section; reservoirs, 2-3,000,000 gal.

Pumps, 1-920,000 gal. centrifugal Kreogh, belted to steam engine, 130-hp. Allis-C., 1-130,000 gal. triplex Deming driven by elec. motor, 1-65,000 gal. triple driven by elec. motor; pumping to reservoirs, 2-2,160,000 gal.

Pipe, 3 to 24-in. steel; hyd. 47, hose con. 2½-in.; av. daily cons. 525,000 gal.; ord. pres. 55 to 68 lb.

VICTORVILLE, 200.

VICTORVILLE DOMESTIC WATER CO.

Pres. & Treas., John S. Thayer..Victorville
V. Pres. & Sec. & Mgr.,
Louis Evans..... "

Springs; 8, 1500 ft. from center distribution; impounding reservoir, 80,000 gal.; no purification.

Pump, 1-190,000 gal. Goulds; gasoline engine, 1-15-hp. Lambert; pumping to tank, 50,000 gal. wood.

Pipe, 1.7 mi. 2 to 6-in. gal. i. & steel; meters, 6 Neptune; av. daily cons. 10,000 gal.; serv. con. 51; ord. pres. 65, fire pres. same.

Rates; flat, $1.25 mo.; meter, 45c..100 cu. ft. max., 15c. min.

VISALIA, 4,550.

VISALIA CITY WATER CO.

Pres., J. S. Johnson.....Visalia
Sec., M. W. Bigelow..... "
Ch. Engr. P'g. Sta., A. A. Wingfield. "

Wells, 10, 12-in. 85 ft. deep; no purification.

Boilers, 2-40-hp. ea.; pumps, 4-3,600,000 gal. B. J. & Crow; elec. motors, one 60-hp. 3, 20-hp. Westg.; pumping direct.

Pipe, 30 mi. 4 to 12-in. c. i.; hyd. 32, meters, 30 various; av. daily cons. 1,000,000 gal.; serv. con. 1000; ord. pres. 40 to 45 lb., fire pres. 55 lb.

Rates: flat, min. $1.50 mo.; meter, 25c. 1000 gal. max., 9c. min.

WALNUT CREEK, 550.

WALNUT CREEK WATERWORKS CO.

Mgr., R. M. Burgess, Bankers & Investors Bldg.....San Francisco

WATSONVILLE, 4,446.

WATSONVILLE WATER & LIGHT CO.

Pres., W. W. Montague.....San Francisco
Sec., Geo. W. Hunt.....Watsonville
Supt., H. C. Wyckoff..... "
Cons. Engrs.,
Sanderson & Porter....New York, N. Y.

Corralitos Creek and Brown Creek furnish main supply with gravity distribution; auxiliary supply from artesian wells, 6-150 to 200 ft. deep; creeks 9 mi. from city, wells within city; slow sand filter 1,000,000 gal.; chemical sulphate of alumina.

Pumps, 2-1,080,000 gal. ea. B. J.; elec. motors, 2-2200 v. 2 ph. F. M.; pumping direct.

Pipe, 19½ mi. 4 to 30 in. c. i. & wood; hyd. 78, hose con. 4-in.; valves, 235; meters, 150; av. daily cons. 1,000,000 gal.; serv. con. 1700; ord. pres. 25 to 40 lb., fire pres. 65 to 80 lb.

Rates: flat, $1.00 mo.; meter, 20c. 1000 gal.

WATTS, 1,932.

CONSERVATIVE REALTY CO. Supplies a part of Los Angeles County.

Pres., W. W. Pedder.....Watts
Sec. & Treas., A. B. Pedder..... "
Engr. P'g. Sta., J. W. Thompson.... "

Artesian wells, 2 9 & 16-in. 220-ft.; near center distribution.

Pumps, 3-3,168,000 gal. centrifugal B. J. belted to gas enginee, 15, 20 & 40-hp. 2 Model & one Lambert; pumping direct; elev. tank, 50,000 gal. wood.

Pipe, 26 mi. 2 to 10 in. wr. i.; hyd. 5, hose con. 2½-in.; valves, 181 r. h. thd. Crane; meters, 890 Neptune; av. daily cons. 275,000 gal.; serv. con. 1000; ord. pres. 35 lb., fire pres. 70 lb.

Rates; meter, min. charge $1.25 8,333 gal., 15c. 1000 gal.

WHITTIER, 4,550.

MUNICIPAL.

Pres. Bd. Trustees, L. Williams....Whittier
Chm. Comrs., O. W. Manksby.... "
Supt., A. L. Underwood..... "
Ch. Engr. P'g. Sta., E. H. DeMent "

Wells, 3-12 & 20-in. 450 to 600 ft. deep; 2½ mi. from center distribution; no purification.

Boilers, 3 water-tube 175-hp. ea.; oil fuel; pumps, 2 crank & fly-wheel 2,000,000 gal. Murray; elec. motors, one 40-hp. 220 v. 3 ph. 50 cys. Wagner, one 20-hp. 220 v. 30h. 60 cys. G. E.; pumping to reservoir, 1,850,000 gal.

Pipe, 32.5 mi. 4 to 30-in. steel; hyd. 150, hose con. 2½-in. Darling and Pittsburgh; valves, 206 r. h. thd. Crane; meters, 400 various; av. daily cons. 800,000 gal.; serv. con. 1800; ord. pres. 15 to 95 lb., fire pres. 45 to 95 lb.

Rates: flat, $1.00 mo.; meter, min. charge $1.00 mo. 4500 cu. ft., 35c. 1000 cu. ft.

BIG FOUR WATER COMPANY.

Pres., W. E. Watson.....Whittier
V. Pres., C. F. Off..... "
Sec., Alva Starbuck..... "

Buys water from City of Whittier to suppply four oil companies.

WILLITS, 1,153.

WILLITS WATER & POWER CO. Office, 1216 Bldg., San Francisco.

Pres., A. W. Foster, Jr.....San Francisco
V. Pres., Sec. & Mgr.,
W. H. Foster..... " "
Supt., J. W. Heat.....Willits
Engr. P'g. Sta., W. P. Heat.. "

Impounding reservoir on small creek; filters thru natural gravel bed; 2.75 mi. from center business section.

Gravity distribution from reservoirs, 1-20,000 gal. & 1-110,000 gal. concrete; pipe, 6 & 8-in. rivetted steel; hyd., hose con. 2½-in.; ord. pres. 50 to 70 lb.

WILLOWS, 1,135.

WILLOWS WATER & LIGHT CO. (Controlled by Northern California Power Co., Cons., 995 Market St., San Francisco.)

Sec., Edward Whaley.....San Francisco

Wells, 6 tubular; near center distribution.

Pumps, 1-1,440,000 gal. centrifugal Dow, d. con. to elec. motor, 50-hp., 1-1,080,000 gal. centrifugal B. J. belted to elec. motor, 50-hp., 1-1,440,000 gal. centrifugal Dow, d. con. to elec. motor, 50-hp.; pumping to elev. tanks, 2-45,000 gal. wood.

Pipe, 4 to 8-in.; hyd. 69, hose con. 2½-in.; av. daily cons. 135,000 gal.

WILMINGTON.

Part of the Harbor District of Los Angeles and supplied by the San Pedro Waterworks owned by Los Angeles. See San Pedro.

WINTERS, 910.

MUNICIPAL.

Chmn. Comrs., F. M. Wyatt.....Winters
Comr., G. L. Barnes..... "
" R. L. Nunam..... "
Supt. & Engr. P'g. Sta.,
L. H. Gregory..... "

Wells, 4 3 to 10-in. 165 ft. deep; near center business section; no purification.

Pumps, 1-360,000 gal. hor. Krogh 1903, 1-360,000 gal. hor. Krogh 1914, d. con. to elec. motor, one 15-hp. 220 v. 3 ph. 60 cys. Westg. 1903, one 20-hp. 220 v. 3 ph. 60 cys. G. E. 1914; gas engine, 25-hp. Westg. 1901; pumping to elev. tank (1900) 45,000 gal. wood.

Pipe, 10 mi. 1½ to 6-in. c. & w. i.; valves, 30 r. h. opening; meters, 8 various; av. daily cons. 300,000 gal. 93%; serv. con. 310; ord. pres. 20 to 35 lb., fire pres. 20 to 35 lb.

Rates; flat, $1.25 mo., closet 10c.; meter, $1.2 mo. 5000 gal., 5c. 1000 gal. min.

WOODLAND, 3,187.

MUNICIPAL.

Pres. Trustees, J. O. Maxwell....Woodland
City Clerk, G. E. Whitney..... "
City Treas., Lawrence Stephens.... "
City Engr., A. Proctor..... "

Wells, 8 14-in. 185 ft. deep; near center distribution.

Boilers, 2; pumps, 1-2,160,000 gal. centrifugal d. con. to elec. motor, 50-hp., 1-1,440,000 gal. comp. duplex steam Dow, 1-1,440,000 gal. centrifugal d. con. to elec. motors, 50-hp., 1-1,440,000 gal. centrifugal driven by gasoline engines, 55-hp.; pumping direct & to elev. tank, 120,000 gal. steel.

Pipe, 4 to 8-in.; av. daily cons. 300,000 gal.

YREKA, 1,134.

CALIFORNIA-OREGON POWER COMPANY. See Dunsmuir.

YUBA CITY, 1,160

MUNICIPAL.

Mayor, F. S. Walton.....Yuba City
Clerk, C. C. Kline..... " "
Supt. & Engr. P'g. Sta.,
F. M. Wren..... " "
Cons. Engr., Guy McMurtry....Chowchilla

Wells, 2 12-in. 85 & 165-ft. deep; ½ mi. from center business section.

Pumps, 2-864,000 gal. hor. centrifugal Krogh 1909 d. con. to elec. motor, 35-hp. 2200 v. 3 ph. 60 cys. G. E. 1909 & gas engine, 75-hp. Doak 1909; elec. energy from Pacific Gas & Elec. Co.; pumping direct & to elev. tank (1909) 100,000 gal. steel.

Pipe, 4 mi. 3 to 8-in. c. i., hyd. 44, hose con. 2½-in.; valves, 231. h. opening; meters, 35 Pittsburgh; av. daily cons. 135,000 gal. 99%; serv. con. 260; ord. pres. 47 to 60 lb., fire pres. 120 lb.

Rates; flat, $1 mo., bath 25c., closet 25c.; meter, min. charge $1 mo. 7000 gal., 25c. 1000 gal. max., 15c. min.

COLORADO

AKRON, 647.
MUNICIPAL.
Chmn. Comrs., J. A. Forsythe.....Akron
Comr., John Kramer..... "
" J. R. Huey..... "
Town Clerk, R. C. Ferry, Jr..... "
Supt., John Hudson, Jr..... "
Wells, 2 10 ft. in diam. 100 ft. deep; near center business section; no purification.
Pumps, 2 hor.; gasoline engines, 2½ & 8-hp. 1913 & 1914; pumping to standpipe.
Pipe, 8-in. c. & w. i.; hyd. 1¢, hose con. 3-in.; meters, 10 Neptune; av. daily cons. 12,000 gal.; serv. con. 70.
Rates; flat, $1 mo., bath $2, closet $2.

ALAMOSA, 2,013.
MUNICIPAL.
Chmn. Comrs., Roy Campbell....Alamosa
Comr., W. U. Briggs..... "
" Charles Darling..... "
Town Clerk, W. G. Moffat..... "
Supt. & Engr. P'g Sta.,
W. P. Robinson..... "
Artesian wells, 2 6-in. 866-ft. deep; 1,600 ft. from center business section; reservoir, 100,000 gal.; no purification.
Pumps, 2-864,000 gal. vert. triplex Deming 1911 geared to elec. motors, 2 35-hp. ea. 2,300 v. 3 ph. 60 cys. Westg. 1911; pumping to elev. tank (1911) 200,000 gal. steel, Des Moines Bridge & Iron Co.
Pipe, 11.75 mi. 5 to 16-in. c. i. & steel; hyd. 97, hose con. 2½-in. Ludlow; valves, 76 r. h. opening Ludlow; meters, 138 National; av. daily cons. 123,000 gal. 85—; serv. con. 144; ord. pres. 60 to 72 lb., fire pres. same.
Rates; meter, min. charge 70c. mo. 2,000 gal., 25c. 1,000 gal. max., 12c. min.

ALTMAN, 145.
Supplied by THE ALTMAN WATER COMPANY. See Cripple Creek.

ANACONDA, 164.
Supplied by THE ALTMAN WATER COMPANY. See Cripple Creek.

ARVADA, 840.
MUNICIPAL.
Supt., John Lercher.....Arvada
Artesian wells; pumps driven by elec. motors; pumping to elev. tank, 150,000 gal.
Pipe, 4 mi. 4 to 8-in. c. i. ;meters, 120; hyd. 32; serv. con. 120; ord. pres. 60 lb.

ASPEN, 1,834.
CASTLE CREEK WATER CO.
Pres., D. R. C. Brown.....Aspen
Sec., Harry A. Brown..... "
Supt., S. H. Finley..... "
Mountain streams, Castle Creek, Maroon Creek and Hunter Creek; no purification.
Gravity distribution from tanks, 50,000 gal. wood.
Pipe, 5 mi. 4 to 12-in. steel; hyd. 50, hose con. 3-in. Ludlow; valves, l. h. opening; meters, none; av. daily cons. 250,000 gal.; serv. con. 310; ord. pres. 110, fire pres. same.
Rates: flat, $17.50 to $43.95 year.

AULT, 569.
MUNICIPAL.
Comr., J. W. Bowman.....Ault
" John Duncan..... "
" C. A. Byton..... "
Supt., John H. Cherry..... "
Well, 10 ft. in diam. 40 ft. deep; ¼ mi. from center distribution.
Pump, 1 460,000 gal. Rumsey; gasolene engine, 1-50-hp. Olds; pumping to tanks, 2-20,000 gal. ea.
Hyd. 20, hose con. 2½-in.; meters, 175 Pittsburgh; av. daily cons. 90,000 gal.; serv. con. 200; ord. pres. 50 to 85 lb., fire pres. 85 to 100 lb.
Rates; 90c. 1000 gal. max., 15c. min.

BERTHOUD, 758.
MUNICIPAL.
Comr., & Supt., H. A. Lovejoy...Berthoud
Cons. Engr., Albert Hartford.... "
Chemist, H. E. DeBerard.....Denver
Big Thompson Creek; 15½ mi. from center distribution; coagulating basin, 1,000,000 gal.; mechanical filter, 750,000 gal. Roberts; chemical, sulphate of alumina.
Pumps, one centrifugal; gasolene engine, 35-hp. F. M. (For washing filter only.); gravity distribution from reservoir, 175,000 gal.
Pipe, 6 to 10-in.; hyd. 22 Ludlow; meters, none; av. daily cons. 500,000 gal.; serv. con. 250; ord. pres. 30 to 40 lb.; fire pres. same.

BLACK HAWK, 668.
MUNICIPAL.
Mountain springs; gravity distribution from reservoir, 100,000 gal.; pipe, 4.5 mi.; hyd. 15; ord. pres. 100 lb.

BOULDER, 9,529.
MUNICIPAL.
Mayor, W. L. Armstrong.....Boulder
City Clerk, O. P. Clark..... "
Supt., T. E. Barry..... "
Des. Engr., Geo. R. Joslyn..... "
Impounding reservoirs on north fork of Boulder Creek, 2-764,710,000 gal.; 25 mi. from center business section; no purification.
Gravity distribution from reservoirs, 3-18,726,000 gal.; pipe, 21 mi. 8 to 30-in. c. i., steel & wood; hyd. 140, hose con. 2½-in. R. D. W., Eddy & Ludlow; valves, 295 r. & l. h. opening Ludlow; meters, 5 National; av. daily cons, 4,000,000 gal.; serv. con. 2,800; ord. pres. 45 to 160 lb., fire pres. same.
Rates; flat, $14 year including bath & closets; meter, 30c. 1,000 gal. max., 8c. min.

BRECKINRIDGE, 834.
MUNICIPAL.
Supt., Ed. T. Stuard.....Breckinridge
Cons. Engr., F. C. Cramer.... "

Mountain streams; one mi. from center distribution.

Gravity distribution from reservoir, 1,500,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 22, hose con. 2½-in. R. D. W.; valves, 45 r. & l. thd.; serv. con. 250; ord. pres. 120 to 145 lb., fire pres. same.

BRIGHTON, 850.

MUNICIPAL.

Well, 12 ft. in diam.; pumps, 3; pumping to elev. tanks, 27,000 gal.

Pipe, c. i.; hyd. 37; meters, none; ord. pres. 75 lb., fire pres. 150 lb.

BRUSH, 997.

MUNICIPAL.

Chm. Comrs., J. D. Green.....Brush
Comr., O. B. Fawcett..... "
Mayor, C. W. Emerson..... "
Supt., A. D. Lierskov..... "

Artesian wells, 9, 12-in. 85 deep; Kewanee compressed air system; no purification.

Pumps, 1-468,000 gal., 1-720,000 gal. F. M. belt con. to gasolene engines, 50-hp. Model; pumping to tanks, 2, 18,000 gal.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd 30, hose con. 2½-in. Ludlow and Crescent; meters, 15 Neptune and National; av. daily cons., winter, 250,000 gal., summer 500,000 gal.; serv. con. 294; ord. pres. 40 to 70 lb., fire pres. 50 to 100 lb.

Rates: flat, $2.00 quarter, bath 75c., closet 75c.; meter, 15c. 1000 gal.

BUENA VISTA, 1,041.

MUNICIPAL.

Mayor, W. W. Fay.....Buena Vista
Supt., John Frame, Sr..... " "
Des. Engr., I. C. Terry..... " "
City Treas., A. A. MacLennan.. " "

Cottonwood Creek; 2 mi. from center distribution; slow sand filter, 500,000 gal.; chemicals, none.

Gravity distribution from reservoir, 100x 10 ft.; hyd. 19, hose con. 2½-in. Ludlow; valves, 25 r. & l. h. thd. Ludlow; meters, none; av. daily cons. 30,000 gal.; serv. con. 300; ord. pres. 60 to 65 lb.

Rates; flat, $1 mo., bath 20c., closet 10c.

CANON CITY, 5,162.

MUNICIPAL.

Supt., John Shatelat.....Canon City.

Arkansas River; 8 mi. from center business section; settling basin, 34x152x8.5 ft.; slow sand filters; clear water basins, 2; clear water reservoirs, 2-2,000,000 gal.

Gravity distribution; pipe, 4 to 20-in.; serv. con. 1,400; meters, 6; ord. pres. 90 lb.

CARDIFF, 225.

CARDIFF LIGHT & WATER COMPANY.

Office, Glenwood Springs.
Pres., H. R. Kamm..... ...Fresno, Calif.
V. Pres., C. C. Parks....Glenwood Springs
Sec., C. R. McCarthy.... " "
Treas. & Gen. Mgr., H. G. Overbeck..... " "
Supt., Ernest Barlow.... " "

Buy water from municipal plant of Glenwood Springs.

Gravity distribution from tanks, 2 (1907) 100,000 gal. wood F. M.

Pipe, one mi. 4 & 6-in. wood; hyd. 4, hose con. 3-in. Ludlow; av. daily cons. 75,-000 gal.; serv. con 65; ord. pres. 40 to 55 lb.

Rates; flat, $5.50 quarter, bath $1.25, closet $1.25.

CENTRAL CITY, 1,728.

MUNICIPAL.

City Engr., S. A. Rauk.....Central City

Springs & Mountain streams; gravity distribution from reservoirs, 2-400,000 gal.

Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 56; meters, 30; serv. con. 450; ord. pres. 185 lb.

COAL CREEK, 676.

COAL CREEK WATER & LIGHT CO.

Mountain streams; gravity distribution from reservoirs; ord. pres. 100 lb.

COLORADO CITY, 4,333.

MUNICIPAL.

Mayor, J. D. Faulkner.....Colorado City
Comr., Lee Becker..... " "
City Clerk, May Ammerman. " "
Supt., C. B. Myles..... " "

Impounding reservoir on Sutherland Creek, 3,000,000 gal.; 3 mi. from center business section; no purification.

Gravity distribution; pipe, 5 mi. 3 to 10-in. c. i.; hyd. 26, hose con. 3-in. Ludlow; valves, 12 r. h. opening; av. dialy cons. 2,000 gal.; serv. con. 226; ord. pres. 47 to 70 lb.

COLORADO SPRINGS, 29,078.

MUNICIPAL. Supplies East Manitou.

Supt., B. B. Reynolds....Colorado Springs

Pike's Peak; storage reservoirs, 6, 2,254,000,000 gal.

Gravity distribution from reservoirs, 3-22,250,000 gal.

Pipe, 143 mi. 2 to 24-in. c. i. & steel; hyd. 505, Matthews, Eddy & Ludlow; valves, 1894 mostly Ludlow; meters, 224 mostly National; av. daily cons. 6,734,000 gal.; serv. con. 11,946; ord. pres. 40 to 125 lb.

CONEJOS, 348.

MUNICIPAL.

Supt., Emil Koch.....Conejos

CORTEZ, *700.

MUNICIPAL.

Comr., C. B. Reid.....Cortez
" L. G. Grasse..... "
" John Wesch..... "
Supt., W. G. Clucas..... "
Cons. Engrs., Winfield & Holbrook. "

Dolores River; 5 mi. from center distribution.

Gravity distribution from reservoir, 12-,000,000 gal.

Pipe, 5 mi. 4 to 12-in. steel; hyd. 22, hose con. 2½-in. Ludlow; valves, 18; meters, none; av. daily cons. 125,000 gal.; serv. con. 100; ord. pres. 82 lb.

Rates; flat, $1.25 to $4.50 mo.

CRESTED BUTTE, 904.

CRESTED BUTTE LIGHT & WATER CO.
Pres., Mgr. & Supt., W. H. Whalen.....Crested Butte
V. Pres., J. H. Block..... " "
Sec., C. L. Ross..... " "
Treas., C. J. Biel..... " "
Engr. P'g Sta., L. Espy..... " "

Coal Creek; gravity distribution from reservoir, 2,000,000 gal.

CRIPPLE CREEK, 6,206.

THE ALTMAN WATER COMPANY. Supplies Altman and Anaconda.
Pres., H. L. Shepherd....Cripple Creek..

Beaver Creek; 2 mi. from enter distribution; no purification.

Boilers, 2-40-hp.; hand stoking; pumps, 3. Serv. con. 300.

DEL NORTE, 840.

MUNICIPAL.
Mayor, W. S. Johnson.....Del Norte
Chm. Comrs., Byron Shaffer.... " "
Supt., August Fox..... " "
Ch. Engr. P'g. Sta., Geo. A. Bankert..... " "

Well, 15x25 ft. 11 ft. deep, near banks of Rio Grande River; impounding reservoir, 16x20 ft. 16 ft. deep; no purification.

Boilers, 2 165-hp. ea. Kewanee; hand stoking; pumps, 1-432,000 gal. compound duplex F. M., 1-720,000 gal. Knowles; belt driven from Corliss engine.

Pipe, 4 mi. 4 to 12-in. w. i.; hyd. 20; av. daily cons. 75,000 gal.; serv. con. 250; ord. pres. 80 to 120 lb., fire pres. same.

Rates: flat, six-room house $5 year, bath $4., closet $4.

DELTA, 2,388.

MUNICIPAL.
Comr. & Clerk, Lionel R. Wigram ...Delta
Comr., Watson H. Stewart..... "
" Daniel Wagner..... "
City Engr., Jas. K. Livengood..... "

Impounding reservoirs on Doughspoon & Dirty George Creek, 2-3,698,000,000 cu. ft.; 12 & 17.5 mi. from center distribution; settling basin, 250,000 gal.; chemicals, none.

Pumps, centrifugal d. con. to elec. motor, 100-hp. 2,300 v. 3 ph. 60 cys. G. E.; elec. energy from Western Colorado Power Co.; gravity distribution from reservoir, 600,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i. & steel; hyd. 56, hose con. 2½-in. Ludlow & Rensselaer; valves, 210 r. & l. h. thd. Ludlow; meters, one Worth.; av. daily cons. 480,000 gal.; serv. con. 500; ord. pres. 100 to 116 lb.

Rates; flat, $1.25 mo; meter, 10c. 1,000 gal.

DENVER, 213,381.

THE DENVER UNION WATER CO. Supplies Englewood.
Pres. & Gen. Mgr., W. P. Robinson.Denver
V. Pres., John Evans..... "
Treas., F. G. Moffat..... "
Sec., W. P. Miller.....Denver
Ch. Engr. & Gen. Supt., D. G. Thomas..... "

South Platte River, infiltration galleries from Cherry Creek & Bear Creek; impounding reservoirs, 3-37,911,100,000 gal.; slow sand filter, 35,000,000 gal.; mech. filters, 14,000,000 gal. wooden gravity tanks.

Boilers, 2 150-hp. ea. 85 lb. Erie, 3 100-hp. ea. 85 lb. Erie, 3 100-hp. ea. 110 lb. Kewanee, one 100-hp. 110 lb. Allis-C., 4 80-hp. 119 lb. Allis-C., one 100-hp. 110 lb. Star, one 60-hp. 80 lb. Ames all hor. return tubular, one internally fired 40-hp. 80 lb. Economic, one water-tube 132-hp. 150 lb. B. & W.; pumps, 3 hor. duplex Holly, 1-4,000,000 gal., 2-2,000,000 gal. ea. geared to water-turbines, 2-6,000,000 gal. ea. hor. comp. duplex c. & f. wh. Holly, 2-1,000,000 gal. ea. hor. comp. duplex Deane, 1-5,000,000 gal. hor. tri. exp. duplex Worth., 1-3,000,000 gal. hor. duplex Holly, 1-3,000,000 gal. hor. comp. duplex Holly, 1-4,000,000 gal. vert. comp. duplex Barr, 1-10,000,000 gal. hor. tri exp. duplex Worth., 2-1,000,000 gal. hor. comp. duplex Worth. & Knowles, 3-8,000,000, 5,000,000 & 3,000,000 gal. centrifugal DeLaval driven by steam turbines; pumping direct, to reservoirs, 5-86,000,000 gal. & elev. tanks, 2-750,000 gal. ea. steel.

Pipe, 477 mi. 4 to 30-in. c. i.; hyd. 2,400, hose con. 2½ & 4-in. Holly & Ludlow; valves, 8,500 r. & l. h. thd. Rensselaer & Ludlow; meters, 500; av. daily cons. 46,000,000 gal.; serv. con. 45,000; ord. pres. 40 to 100 lb.

Rates; flat, $2.40 6 mo., bath $2, closer $2; meter, min. charge 25c. mo., 17c. 1,000 gal. max., 10c. min.

DURANGO, 4,686.

MUNICIPAL.
Mayor & Comr., Henry R. Gouton.Durango
Comr., Henry W. Redman..... "
Recorder, J. B. Wilson..... "

Impounding reservoirs on Florida River, 2-55,000,000 gal.; 12 mi. from center business section; no purification.

Gravity distribution from reservoir; pipe, 12 mi. 4 to 12-in. w. & c. i.; hyd. 68, hose con. 2½-in. Ludlow; valves, 91 r. h. thd. mostly Ludlow; meters, 5 Hersey & Thomson; av. daily cons. 2,000,000 gal.; serv. con. 1,000; ord. pres. 145 lb. ,fire pres. same.

EAST MANITOU.

Supplied by Colorado Springs.

ENGLEWOOD, 2,983.

Supplied by Denver Union Water Co. See Denver.

ERIE, 596.

MUNICIPAL.
Comr., Budd Pitchford.....Erie
Clerk, Frank Westwood..... "

South Boulder Creek, 3 mi. from center distribution and artesian well, 433 ft. deep, within city; no purification.

Gravity distribution from reservoir, 92,800,000 gal. and tank, 6000 gal. concrete.

Hyd. 44, hose con. 2½-in. mostly Nelson; valves, r. h. opening; meters, 2; serv. con. 95.

Rates: flat, 50c. mo.; meter, 6c. 1000 gal.

FAIRPLAY, 265.

MUNICIPAL.

Mountain springs; 1.5 mi. from center business section; gravity distribution from reservoir.

Pipe, 2 mi.; hyd. 12.

FLORENCE, 2,712.

MUNICIPAL.

Supt., David H. Houston.....Florence

Dillon Creek; 30 mi. from center business section; gravity distribution from reservoirs, 2.

FORT COLLINS, 8,210.

MUNICIPAL.

Comr., F. H. Clammer.....Ft. Collins
Comr. & Pur. Agt.,
D. C. Armitage..... " "
Comr. & Supt., A. A. Edwards.. " "
City Clerk, Ray Baster..... " "
Asst. Supt., John Cameron..... " "
Chemist, Walter G. Sacked..... " "

Pache La Poudre River; 7 mi. from center business section; mech. filters, 4,000,000 gal. Roberts; chemical, sulphate of alumina & hypochlorite of lime.

Grabity distribution from reservoir, 5,000,000 gal. & standpipe (1909).

Pipe, 60 mi. 3 to 22-in. wood, steel & c. i.; hyd. 115, hose con. 2½-in. Holly, Ludlow & R. D. W.; valves, 400 r. & l. h. opening various; meters, 112 mostly Neptune; av. daily cons. 2,000,000 gal. 80%; serv. con. 2,400; ord. pres. 75 to 92 lb., fire pres.same.

Rates; flat, $4.40 quarter including bath & closet; meter, min. charge $5 quarter 15,000 gal., 40c. 1,000 gal. max., 3½c. min.

FORT LUPTON, 614.

MUNICIPAL.

Wells, 2 tubular.

Pumps, deep well triplex d. con. to oil engines, 50-hp.; pumping to elev. tanks, 100,000 gal.

Pipe, 4.5 mi. 4 to 10-in. c. i.; hyd. 27; ord. pres. 45 lb.

FORT MORGAN, 2,800.

MUNICIPAL.

Mayor, G. M. Patterson.....Ft. Morgan
Clerk, C. C. Rickel..... " "
Supt. & Ch. Engr. P'g. Sta.,
Geo. C. Cox..... " "
Des. Engr., C. H. Meeker..... " "

Wells, 3-10 & 12-in. 180 ft. deep; ¾ mi from center distribution; no purification.

Boilers, 4-587-hp. Geary & Kewanee; hand stoking; pumps, 2-160,000 gal. Eclipse and Buffalo; elec. motors, 2, 105-hp 440 & 2300 v. 2 ph. 60 cys. G. E. & F. M.; pumping to standpipe (1903) 20 ft. in diam. 100 ft. high, iron.

Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 70, hose con. 2½-in. Nelson & Ludlow; valves, 41 l. h. thd. Crane; meters, 4 Neptune; av. daily cons. 500,000 gal.; serv. con. 750; ord. pres. 43 lb., fire pres. 105 lb.

FOWLER, 925.

CRYSTAL SPRINGS PIPE LINE & WATER CO.

Supt., John McClaren.....Fowler

Springs; pumping to elev. tank, 100,000 gal.

Pipe, 4-in. c. i.; hyd. 18; meters, 175; serv. con. ord. pres. 52 lb.

FRUITA, 881.

Ownership not reported.

Springs in the U. S. forest reserve; 23 mi. from center business section; gravity distribution from reservoir.

GEORGETOWN, 950.

MUNICIPAL.

Impounding reservoir on South Fork of Clear Creek; gravity distribution; pipe, 4 mi.; ord. pres. 100 lb.

GLENWOOD SPRINGS, 2,019.

MUNICIPAL.

Comr., Ernest Barlow...Glenwood Springs

Grizzley & No-Name Creek; gravity distribution from tanks; ord. pres. 90 lb., fire pres. 190 lb.

GOLDEN, 2,477.

MUNICIPAL.

Chm. Comrs., S. Sorensen.....Golden
Comr., S. T. Hussen..... "
" C. W. Owens..... "
City Clerk, A. E. Jones..... "

Beaver Brook; 12 mi. from center distribution.

Gravity distribution from reservoirs, 2-100,000,000 gal.

Hyd. 50, hose con. 2-in.; av. daily cons. 350,000 gal.; serv. con. 400; ord. pres. 140 lb., fire pres. 150 lb.

Rates: flat, $6.00 year, bath $1.50, closet $2; meter, 6c. gal. max., 4¾c. min.

GOLDFIELD, 1,112.

MUNICIPAL.

Mayor, A. Hawn.....Goldfield
City Clerk, Marguerite McShane.. "
Treas., Valentine Getz..... "
Supt., Wm. H. Shoecraft..... "

Buy water from Victor Water Works. See. Victor.

Gravity distribution from tank, 100,000 gal.

Hyd. 15, hose con 2½-in.; valves, 18; meters, 1 Neptune; av. daily cons. 30,000 gal.; serv. con 325; ord. pres. 70 to 80 lb., fire pres. same.

GRAND JUNCTION, 7,754.

MUNICIPAL.

Comr., Frank Carson.....Grand Junction

Kannah Creek; 27 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 3-3,000,000 gal.

Pipe, 20 mi. 4 to 12-in. c. i. & steel; hyd. 140, hose con. 2½-in. National and Rens-salaer; av. daily cons. 2,000,000 gal.; serv. con. 2000; ord. pres. 80 to 90 lb., fire pres. same.

GRAND VALLEY, 268.

Springs near Grand River; gravity distribution; pipe, 4.5 mi. wood; hyd. 15; serv. con. 80; ord. pres. 105 lb.

GRAY CREEK, 576.

MUNICIPAL.

Mountain stream; gravity distribution; pipe, 2 mi.; ord. pres. 105 lb.

GREELEY, 8,173.

MUNICIPAL.

Chmn. Comrs., D. R. McArthur...Greeley
Comr., J. B. Phillips..... "
" J. J. Mellon..... "
Sec., W. A. Hotchkiss..... "
Supt., M. Seaman..... "
Des. Engr., O. F. Shattuck..... "
Chemist, J. R. Miller..... "

Impounding reservoir on Cache La Poudre River, 30,000,000-gal.; 38 mi. from center business section; slow sand filters, 5,000,000 gal. filtering area 2 acres; chemicals, none.

Gravity distribution from reservoirs, 2-10,000,000 gal.; pipe, 74 mi. 4 to 10-in. c. i., steel & wood; hyd. 112, hose con. 2½-in Ludlow; valves, 124 r. h. opening Ludlow; meters, 123 Thompson, Worth., Neptune & National; av. daily cons. 300,000 gal.; serv. con. 2,021; ord. pres. 55 to 85 lb.

Rates; flat, $10 year, bath $1, closet $3; meter, min. charge $1.50 mo., 15c. 1,000 gal. max., 7c. min.

GUNNISON, 1,026.

MUNICIPAL.

Supt., F. E. Keenan.....Gunnison
Treas, F. D. VanAken..... "
Comr., H. M. Webster..... "
" George Lightley..... "
" E. J. Sampliner..... "

Gunnison River; one mi. from center distribution; settling well 8x14 ft.

Boilers, 3 return tubular 125-hp. ea., one star, 2 Kewanee; hand stoking; pumps, 2-1,440,000 gal. Deming; elec. motor, 30 kw. 2300 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 218,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 52, hose con. 2½-in. Holyoke; valves, 15 l. h. thd.; meters, one National; av. daily cons. 150,000 gal.; serv. con. 220; ord. pres. 75 to 100 lb., fire pres. same.

HOLLY, 724.

MUNICIPAL LIGHT & WATER CO.

Supt., J. G. Fuller.....Holly

Deep well; boiler, 200-hp. Frost; steam engines, 155-hp. Erie; air lifts to reservoir, 50,000 gal.; pumping to elev. tank, 90,000 gal.

Pipe, c. i.; hyd. 35; serv. con. 130; ord. pres. 80 lb., fire pres. 125 lb.

HOLYOKE, 659.

MUNICIPAL.

Mayor, L. Kepler.....Holyoke
Town Clerk, Mr. McEwen..... "
Supt. & Engr. P'g. Sta., Paul Renck "

Wells, 3 5 & 7-in. 180-ft. deep; near center business section.

Boilers, one return tubular 54-hp. 100 lb. Frost 1904, one return tubular 66-hp. 120 lb. Frost 1908; hand stoking; pumps, 2-120,000 gal. ea. vert. simple d. act. Cook 1904 & 1914, 1-hor. double act. Knowles, 1-40,000 gal. hor. single F. M. 1906 geared to gasoline engine; pumping to standpipe to (1894) 63,000 gal.

Pipe, 3 mi. 4 to 6-in. c. i.; hyd. 23, hose con. 2½-in.; valves, 19; meters, 170 Buffalo; serv. con. 170; ord. pres. 25 to 35 lb., fire pres. 30 to 75 lb.

Rates; meter, min. charge $2.25 quarter 400 cu. ft.; 25c. 1,000 gal.

HOTCHKISS, 600.

MUNICIPAL.

Laroux Creek; gravity distribution from reservoirs, 2; pipe, 3 mi. 6 & 8-in. c. i.; hyd. 22; meters, none; ord. pres. 55 lb.

IDAHO SPRINGS, 2,154.

MUNICIPAL.

Mayor,
George E. McClelland....Idaho Springs
Clerk, B. A. Holly..... " "
Supt., T. A. Jones..... " "
City Engr., Jas Underhill.... " "

Springs, 12 mi. from center distribution; impounding reservoir, 75,000,000 gal.; no purification.

Gravity distribution from reservoir; 2,-500,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 3-in.; valves, 72 r. h. thd. Crane; meters, 8 Pittsburgh and Buffalo; av. daily cons. 750,000 gal., serv. con. 1800; ord. pres. 50 to 90 lb., fire pres. same.

Rates: meter, 13c. 100 cu. ft. max., 5c. min.

JULESBURG, 962.

MUNICIPAL.

City Clerk, John P. Wagner... Julesburg

Wells, 3 10 & 14-in.; pumps, 1-1,080,000 gal. centrifugal d. con. to elec. motor, 50-hp., 1-43,200 gal. duplex F. M.; pumping to elev. tank, 100,000 gal.

Pipe, 1.2 mi. 3 to 12-in. c. i.; hyd. 75; meters, none; ord. pres. 45 to 50 lb., fire pres. 75 lb.

LAFAYETTE, 1,892.

MUNICIPAL.

South Boulder Creek; gravity distribution; pipe, wood, c. i. & steel; ord. pres. 100 lb.

LA JUNTA, 4,154.
MUNICIPAL.
Chm. Comrs., C. H. Blankenship. La Junta
Supt., S. W. Brown..... "
Cons. Engr., F. T. Lewis..... " "
Ch. Engr. P'g. Sta., Ivan Kiser... " "
Chemist, P. E. Kaler..... " "
Wells, 1-20 ft., 2-5 ft. in diam.; 1 mi. from center distribution; no purification.
Boilers, 2 tubular 150-hp. ea. Kewanee; hand stoking; pumps, 2-2,000,000 gal. ea. Prescott; pumping direct.
Pipe, 11½ mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. Rensselaer; valves, 70 r. & l. h. thd. various; meters, none; av. daily cons. 1,115,000 gal.; serv. con. 850; ord. pres. 30 to 45 lb., fire pres. 45 to 120 lb.
Rates: flat, $1.25 mo.

LAKE CITY, 405.
MUNICIPAL.
Lake Fork of Gunnison River & impounding reservoir; gravity distribution.

LAMAR, 2,977.
MUNICIPAL.
Actg. Mayor, Geo. A. Everett.....Lamar
Chmn. Water Comrs., Frank Wheeler "
Clerk, S. E. Cook..... "
Supt. & Engr. P'g Sta., C. F. Daniel. "
Cons. Engr., M. L. Markham..... "
Well, 6 ft. in diam. 22 ft. deep; well, near center business section; no purification.
Boilers, hor. tubular 60 & 65-hp. 90 lb. Hendrie & Bolthoff 1911 & 1914; pumps, 2-648,000 gal. hor. duplex Epping Carpenter 1912.
Gravity distribution from reservoir, 4,-000,000 gal.; pipe, 22 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in. Rensselaer; valves, 112 r. g. opening; meters, 400 Neptune, Pittsburgh & Buffalo; av. daily cons. 216,-000 gal.; serv. con. 511; ord. pres. 65 lb., fire pres. same.
Rates; meter, $1 1,000 cu. ft.

LAS ANIMAS, 2,008.
MUNICIPAL.
Supt., J. W. Short.....Las Animas
City Engr., W. R. Murphy.... " "
Well, large open near Arkansas River; pumping to elev. tank, 100,000 gal.

LA VETA, 691.
MUNICIPAL.
Impounding reservoir on Cuchara River, 25,000,000 gal.; gravity distribution; pipe, 6 mi. c. i.; ord. pres. 90 to 120 lb.

LEADVILLE, 7,508.
LEADVILLE WATER COMPANY.
Supt., Warren E. West.....Leadville
Impounding reservoir Evans Gulch, 2-57,500,000 gal., mountain lake reservoir, 14,000,000 gal.; storage reservoirs, 2 in big Evans Gulch and one on Empire Creek; impounding reservoir on east fork of Arkansas River.
Gravity distribution; pipe, 30 mi.

LIMON, 534.
MUNICIPAL.
Well, 72 ft. deep.
Pumps, 2 duplex National driven by gasoline engines, 2 35-hp.; pumping to elev. tank, 7,000 gal.
Pipe, 2.5 mi. 4 to 8-in.; hyd. 18; meters, none; serv. con. 80; ord. pres. 70 lb., fire pres. 150 lb.

LITTLETON, 1,200.
MUNICIPAL.
Supt., Albert Black.....Littleton
Platt River.
Pump, 1—316,800 gal. triplex Deming driven by elec. motor, 440 v. 3 ph.; pumping to standpipe (1906) 15 ft. in diam. 80 ft. high, steel.
Pipe, 7 mi. 4 to 12-in. c. i. & steel; hyd. 34; valves, r. & l. h. thd. Ludlow; meters, 325 Neptune and Buffalo; av. daily cons. 100,000 gal.; serv. con. 350; ord. pres. 80 lb., fire pres. 105 lb.

LONGMONT, 4,256.
MUNICIPAL.
Chmn. Comrs., J. N. McLellan..Longmont
Comr., J. C. Barclay..... "
" H. J. Canis..... "
City Clerk, Geo. J. Stonex..... "
Supt., H. F. Shumaker..... "
Cons. Engr., R. E. Richardson... "
Impounding reservoir on St. Vrain River, 2-1,500,000 gal.; 17 mi. from center business section.
Gravity distribution; pipe, 23 mi. 2 to 12-in. steel, c. & w. i.; hyd. 89, hose con. 2½-in. Nelson, Bailey & R. D. W.; valves, 235 mostly r. h. opening Ludlow; meters, 55 Pittsburgh, Neptune & Union; serv. con. 1,465; ord. pres. 40 ro 60 lb.
Rates; flat, $13 year, bath $2, closet $2; meter, min. charge $2 mo. 13,335 gal., 15c. 1,000 gal. max., 3½c. min.

LOUISVILLE, 1,702.
MUNICIPAL.
Coal Creek; mech. filters; gravity distribution.

LOVELAND, 3,651.
MUNICIPAL.
Supt., J. L. Puntenney.....Loveland
Cons. Engr., E. Bice..... "
Big Thompson River; 9 mi. from center distribution; settling basin, 30x50x8 ft.; slow sand filters, 1-60x150 ft., one 30x100 ft.
Gravity distribution.
Hyd. 52, hose con. 2½-in. various; valves, 193 r. & l. h. thd. mostly Ludlow meters, 53 Union, Pittsburgh and Neptune; serv. con. 500; ord. pres. 45 to 65 lb., fire pres. 80 lb.
Rates: flat, $1.00 mo.; meter, 30c. $1000 gal. max.

LYONS, 632.
MUNICIPAL.
Comr., Chas. Franks.....Lyons

Comr., J. S. Stafford.....Lyons
" Albert Phibbs..... "
Supt., Wm. Jackson..... "
Des. Engr., L. H. Dietrich..... "
St. Vrain River and lakes; 20 mi. from center distribution; no purification.
Gravity distribution.
Pipe, 2 mi. 4 to 12-in. wood; hyd. 25, hose con. 3-in. National; valves, l. h. thd.; meters, none; serv. con. 332; ord. pres. 60 to 70 lb., fire pres. same.

MANCOS, 567.
MUNICIPAL.
Supt., J. W. Pearman.....Mancos
Ch. Engr. P'g. Sta., E. C. Cline.... "
Clerk, E. E. Humiston..... "
West Mancos river; 3 mi. from center distribution; impounding reservoirs, 2-525,000 gal. ea.; no purification.
Gravity distribution.
Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 16, hose con. 2½-in. Kupferle; valves, 10 r. h. thd.; meters, none; av. daily cons. 175,000 gal.; serv. con 163; ord. pres. 105 lb., fire pres. same.

MANITOU, 1,357.
MUNICIPAL.
French Creek; gravity distribution from reservoirs, 200,000 gal.; ord. pres. 135 lb.

MANZANOLA, 428.
MUNICIPAL.
Artesian wells, 2 1,165 ft. deep.
Pumps, 1-180,000 gal. triplex driven by gasoline engine, 25-hp.; pumping to elev. tank, 50,000 gal.
Pipe, 2.5 mi. 3 to 6-in. c. i.; hyd. 11; serv. con. 111; ord. pres. 44 lb. ,fire pres. 100 lb.

MEEKER, 807.
MUNICIPAL.
Supt., B. L. Nichols.....Meeker
White river.
Gravity distribution.
Hyd. 27, hose con. 3-in.; valves, r. h. thd. Ludlow; serv. con. 200; ord. pres. 60 to 80 lb., fire pres. 90 to 117 lb.
Rates: flat, $1.45 mo.

MONTROSE, 3,254.
MUNICIPAL.
City Mgr., P. W. Pinkerton.....Montrose
Cons. Engr., Burns & McDonnell,
821 Scarritt Bldg., Kansas City, Mo.
Cimarron river; 15 mi. from center distribution; impounding reservoir, 100,000,000 gal.; no purification.
Pump, one American driven by elec. motor, 100-hp. 2200 v. 60 cys. G. E.; pumping to reservoir, 100,000 gal. and standpipes (1905) 30 ft. in diam. 20 ft. high, wood.
Pipe, 7.6 mi. c. i. & wood; hyd. 43, hose con. 4-in. various; valves, 45 various; meters, 60 various; av. daily cons. 730,000 gal.; serv. con. 800; ord. pres. 40 to 97 lb.; fire pres. 125 lb.

MORRISON, 351.
THE MORRISON WATERWORKS CO.
Office, Mt. Morrison.
Pres. & Gen. Mgr.,
J. B. Walker.....Mt. Morrison
Creek; no purification; gravity distribution.
Rates; flat, $10 year.

NEWCASTLE, 493.
MUNICIPAL.
Impounding reservoir on Elk Creek, 50,000 gal.; gravity distribution; pipe, 3.5 mi.; ord. pres. 95 to 105 lb.

OLATHE, *600.
MUNICIPAL.
Supt., John Meyer.....Olathe
Des. Engr., G. Sessman..... "
Dry Creek.
Gravity distribution from reservoir, 30x 50 ft.
Pipe, 23 mi. 4 to 12-in. wood; hyd. 13, hose con. 3-in. Eureka; meters, none; serv. con. 230; ord. pres. 80 lb., fire pres. same.

OURAY, 1,644.
MUNICIPAL.
Supt., M. Burns.....Ouray
Des. Engr., R. Whinnerah..... "
.Springs & creeks; 3 mi. from center distribution.
Gravity distribution from reservoir; av. daily cons. 600,000 gal.; ord. pres. 108 to 130 lb.
Rates; flat, $1 mo.

ORDWAY, 705.
MUNICIPAL.
Chm. Comrs., George E. Beaver..Ordway
Supt., John B. Estes..... "
Arkansas river and springs; 17 mi. from center distribution; impounding reservoir, 6 acres; settling basin, 120x580 ft.; chemical none.
Gravity distribution.

PAGOSA SPRINGS, 669.
MUNICIPAL.
San Juan River; pumping to reservoir, 130,000 gal.; pipe, 3.5 mi. 4 & 6-in. lock-joint; hyd. 16; serv. con. 150; meters, none; ord. pres. 105 lb.

PALISADE, 900.
MUNICIPAL.
Chm. Comrs., C. H. Vogel.....Palisade
Supt., F. E. Swisher..... "
Rapid Creek, 4 mi. from center distribution; settling basin, 12,000 gal.; chemical, none.
Gravity distribution from reservoir, 240,000 gal.
Pipe, ½ mi. 4 to 12-in. c. i.; hyd. 19, hose con. 2½-in.; valves, 20 r. h. thd.; meters, 50 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 250; ord. pres. 40 to 75 lb., fire pres. 20 to 105 lb.

Rates: flat, $1.50 mo.; meter, min. charge $1.75 mo. 7000 gal.

PAONIA, 1,007.

MUNICIPAL.

Springs; 5 mi. from center business section; gravity distribution from reservoirs, 2-1,250,000 gal. concrete; pipe, 11 mi. Universal c. i.; hyd. 26; meters, 300; serv. con. 600; ord. pres. 90 lb.

PUEBLO, *46,000.

MUNICIPAL.

Chmn. Comrs., J. B. Veith.....Pueblo
Sec., S. F. Reno..... "
Treas., H. G. Tienne..... "
Supt. & Ch. Engr., D. P. Porter.... "

Arkansas River; 2 mi. from center distribution; settling basin, 35,000,000 gal.; chemicals, sulphate of iron.

Boilers, 4 marine 200-hp.; hand stoking; pumps, 3-21,p000,000 gal. Holly; pumping to standpipe (1903) steel.

Pipe, 63 mi. 2 to 34-in. c. i. & wood; hyd. 380, hose con. 2½-in. various; valves, r. & l. h. thd. various; meters, 35 various; av. daily cons. 9,000,000 ga.; serv. con. 4,500; ord. pres. 95 to 100 lb.

Rates; flat, $4.50 quarter, bath $1.50, closet $1.50; meter, 25c. 1,000 gal. max., 5c. min.

RICO, 368.

MUNICIPAL.

Silver Creek; one mi. from center business section; gravity distribution direct & from elev. tank, 100,000 gal.

Pipe, 4.5 mi. c. i.; hyd. 10; meters, none; serv. con. 80; ord. pres. 120 lb.

RIDGWAY, 376.

Ownership not reported.

Impounding reservoir; gravity distribution; pipe, 2 mi.; ord. pres. 110 lb.

RIFLE, 698.

MUNICIPAL.

Comr., Geo. M. Howard.....Rifle
" Dan Densmore..... "
Supt., G. W. Pittman..... "

Beaver Creek, 5 mi. from center distribution; settling basin, 50x100x12 ft.

Gravity distribution.

Hyd. 30, hose con. 3-in.; meters, none; serv. con. 250; ord. pres. 90 to 120 lb., fire pres. same.

Rates: flat, $1.50 mo.

ROCKDALE, 1,413.

MUNICIPAL.

Wells; pumping to reservoir, 80,000 gal.; pipe, 6.5 mi.; ord. pres. 90 lb.

ROCKY FORD, 3,230.

MUNICIPAL.

Chmn Comrs., W. R. Bish.....Rocky Ford
Comr., H. W. Goodner..... " "
" J. H. Price..... " "
Town Clerk, Paul M. North... " "
Supt., F. J. Crosier..... " "

Artesian wells, 4 8-in. 900 ft. deep; near center business section; settling basin, 50,000 gal.

Pumps, 1-500,000 gal. vert. triplex Deane 1908, 1-1,000,000 gal. vert. triplex Deane 1913; belted to elec. motors, 6 10, 25 & 50-hp. 220 v. 3 ph. 60 cys. G. E. 1908 & 1911; purchase energy from Arkansas Valley Light & Power Co.; pumping direct & to reservoir, 625,000 gal.

Pipe, 12 mi. 2 to 8-in. c. i.;hyd. 39, hose con. 2½-in.; valves, 75 r. h. opening; meters, 700 Pittsburgh; av. daily cons. 175,000 gal. 50%; serv. con. 713; ord. pres. 35 to 60 lb., fire pres. 90 to 120 lb.

Rates; 75c. mo. 500 gal., $1.25 1,000 gal. mas., 10c. min.

SALIDA, 4,425.

MUNICIPAL.

Supt., J.M. Hindman.....Salida
Des. Engr., H. Sneddon..... "
City Clerk, H. H. Parker..... "

Spring; 2 mi. from center distribution; impounding reservoir, 3,000,000 gal.; no

Spring; 2 mi. from center distribution; impounding reservoir, 3,000,000 gsl.; no purification.

Gravity distribution.

Pipe, 16 mi. 4 to 12-in. c. i. & w. i.; hyd. 70, hose con. 4-in. various; valves, 91 r. & l. h. thd. various; meters, 25 National; av. daily cons. 3,000,000; serv. con. 1050; ord. pres. 62 to 73 lb., fire pres. same.

SILVER PLUME, 460.

Clear Creek; gravity distribution from reservoir; pipe, 3 mi.; ord. pres. 80 lb.

SILVERTON, 2,153.

MUNICIPAL.

Mayor, S. D. Cunningham.....Silverton
Supt., C. A. Leonard..... "

Impounding reservoirs on Bear & Boulder Creek, 2,000,000 gal.; no purification.

Gravity distribution from reservoirs; pipe, 9.5 mi. 5 to 10-in. Kalamein; hyd. 31, hose con. 2½-in.; valves, 29 r. & l. h. opening ludlow; meters, 11 Buffalo; serv. con. 431; ord. pres. 74 lb., fire pres. same.

Rates; flat, $2.50, bath 75c., closet 75c.; meter, min. charge $5 quarter, 45c. 1,000 gal. max., 10c. min.

STEAMBOAT SPRINGS, 1,227.

MUNICIPAL.

Supt., F. D. Sharp.....Steamboat Springs

Spring Creek and Soda Creek, 2 & 8 mi. from center distribution.

Gravity distribution from reservoirs, 2-1,250,000 gal.

Pipe, 6 mi. 4 to 12-in. wood & c. i.; hyd. 24, hose con. 2½-in. Ludlow & Rensselaer; valves, 26 r. & l. h. thd.; meters, 14 National av. daily cons. 200,000 gal.; serv. con. 273; ord. pres. 90 lb., fire pres. same.

Rates: flat, $9 year, bath $3, closet $2; meter, min. charge $4 mo., 17c. 1000 gal. max., 10c. min.

STERLING, 3,044.
MUNICIPAL.
Supt., G. C. Forgate.....Sterling
Ch. Engr. P'g. Sta. C. J. Hamilton "
Springs, 7 mi. from center distribution and wells, 10-14-in. 90 ft. deep, at city limits; no purification.
Pumps, 2-1,080,000 gal. ea. Worth. belt con. to gasolene engines, 2-40-hp. F. M.; pumping to standpipe (1909) 90 ft. high 2,500 gal. and to reservoir, 75,000 gal.
Hyd. 48 National; valves, l. h. thd.; meters, 54 Pittsburgh; serv. con. 878; ord. pres. 28 to 45 lb., fire pres. 85 to 110 lb.
Rates: flat, 6 room house $12 yr.

TELLURIDE, 1,756.
MUNICIPAL.
City Engr., J. S. James .....Telluride
Impounding reservoirs on Mountain streams, 3-984,000-gal.; gravity distribution.

TRINIDAD, 10,204.
MUNICIPAL.
Supt., W. R. Lewis.....Trinidad
Chemist, Walter Dearden..... "
Las Animas River, North Lake & impounding reservoirs, 5-400,000,000 gal.; 40 mi. from center business section.
Pumps, 2-500,000 gal. ea. hor. Jeanesville d. con. to elev. motors, 2 a. c. 30-hp. 220 v. 3 ph. 60 cys. Westg. 1910.
Gravity distribution from reservoirs, 5-85,000,000 gal.; pipe, 68 mi. 2 to 30-in. c. i., wood & steel; hyd. 177, hose con. 2½-in. Rensselaer, Chapman & Ludlow; valves, l. h. opening Rensselaer; meters, 183 National, Neptune & Hersey; av. daily cons. 3,600,000 gal.; serv. con. 2,882; ord. pres. 60 to 100 lb., fire pres. same.
Rates; flat, $11 6 mo., bath $5, closet $5; meter, $1.60 mo. 4,000 gal., 40c. gal. max., 7c. min.

VICTOR, 3,162.
MUNICIPAL.
Supt., Reno Flore.....Victor
City Engr., S. E. Williams..... "
Beaver Creek; reservoirs, 2-400,000 gal.; gravity distribution.
Pipe, 5 mi. 8 & 12-in.; hyd. 25; meters, 16; ord. pres. 129 lb.

WALSENBURG, 2,423.
MUNICIPAL.
Chmn. Comrs., J. J. Pritchard. Walsenburg
Supt., Roy Hill..... "
Des. Engr., J. C. Lawler..... "
Impounding reservoir on Cuchairos River, 10,000,000 gal.; 12 mi. from center distribution; settling vasins, 300,000 gal.; no purification.
Gravity distribution from reservoirs, above; pipe, c. i.; hyd. 25; valves, l. h. thd.; meters, 5 various; av. daily cons. 288,000 gal.; serv. con. 590; ord. pres. 80 to 100 lb..
Rates; flat, $1 to $6 mo.; meter, 40c. 1,000 gal. max., 7c. min.

WEST CLIFFE, 232.
MUNICIPAL. Leased by West Cliffe Water & Electric Co.
Pres. & Supt., A. C. Merton...West Cliffe
Wells, 2 8 & 12-in. 160-ft. deep; ½ mi. from center business section.
Pump, 1-75,000 gal. centrifugal American driven by elec. motor, 10-hp. 110 v. d. c. 1914 & gasoline engines, 8-hp. St. Mary's 1907.

WINDSOR, 935.
MUNICIPAL.
Obtain supply from Greeley; pipe, 3 mi. c. i.; hyd. 15; serv. con. 220; ord. pres. 40 lb., fire pres. 80 lb.

YUMA, 333.
MUNICIPAL.
Mayor, A. Dowes.....Yuma
Comr., W. J. Worley..... "
Town Clerk, Chas. Crowley..... "
Well, 8-in. 185-ft. deep; near center business section; no purification.
Pumps, 1-16,000 gal. deep well 1910 driven by gasoline engines, 8-hp. F. M. 1910; pumping to standpipe (1910) 120,000 gal.
Pipe, 1.75 mi. 4 & 6-in. c. i.; hyd. 15, hose con. 2¾-in. Kupferle; valves, 3 l. h. opening; meters, 29 National & Thomson; av. daily cons. 14,000 gal. 60%; serv. con. 114; ord. pres. 20 to 35 lb., fire pres. same.
Rates; flat, $3 quarter, bath $4, closet $4; meter, min. charge $1 mo. 5,000 gal., 20c. 1,000 gal.

CONNECTICUT

ANSONIA, 15,152.

THE ANSONIA WATER CO. Supplies part of Seymour.
Pres., Treas. & Gen. Mgr.,
Theodore L. Bristol.....Ansonia
V. Pres., Frank T. Terry..... "
Sec., Frederick L. Gaylord..... "

Beaver Brook; 2 mi. from center distribution; impounding reservoir, 300,000,000 gal.; chemical, copper sulphate.

Gravity distribution from reservoirs, 2-50,000,000 gal.

Pipe, 17 mi. 4 to 30-in. c. i. & cement; hyd. 104, hose con. 2½-in. R. D. W. and Chapman; valves, 190 r. h. opening Ludlow; meters, 287 Neptune; av. daily cons. 1,000,000 gal.; serv. con. 1070; ord. pres. 20 to 100 lb., fire pres. same.

Rates: flat, $7 year, bath $3, closet $3; meter, 18c. 100 cu. ft. max., 5c. min.

FOUNTAIN WATER COMPANY. Office, 21 Franklin St. Supplies West Ansonia, Derby and Seymour.
Pres., C. H. Pine.....Ansonia
Sec. & Treas., A. L. Fisk..... "
Gen. Mgr., J. A. Fisk..... "
Supt., S. J. Kyle..... "

Springs in Seymour; reservoirs, 2-28,200,000 gal.; gravity distribution.

Pipe, 14 mi. 4 to 6-in. & less; hyd. 64; meters, 32; serv. con. 811; av. daily cons. 250,000 gal.; ord. pres. 70 lb.

Rates; flat, $6 year, bath $3, closet $4; meter, 18c. 100 cu. ft. max., 5c. min.

AVON, 1,337.

AVON WATER CO.
Pres., R. E. Case.....Avon
Sec. & Treas., W. C. Chidsey..... "

Stream fed from springs; no purification.

Gravity distribution from reservoir, 100x 500 ft.

Pipe, 1½ mi. 4 to 12-in. c. i.; hyd. 2, hose con. 3-in. Pratt & Cady; valves, 11 l. h. thd.; meters, none; serv. con. 53; ord. pres. 15 lb., fire pres. 90 lb.

Rates: flat, $6 year, bath $3.

THE COLLINSVILLE WATER COMPANY. See Collinsville.

UNIONVILLE WATER CO. Supplies part of Avon. See Unionville.

BALTIC, 1,000.

BALTIC WATER COMPANY. Supplies Sprague.
Pres., John Eccles.....Norwich
Sec., F. C. Sayles. Irvington-on-Hudson, N.Y.
Gen. Mgr., Wm. E. Peck.....Battie

Spring & brooks; reservoir, 1-105,000,000 gal.; gravity distribution.

Pipe, 3 mi. 4-in. & less; hyd. 51; serv. con. 519; ord. pres. 75 lb.

Rates; flat, $6 year, bath $5, closet $5; meter, min. charge $1.50 quarter 5,000 gal. 30c. 1,000 gal. max., 10c. min.

BEACON FALLS, 1,160.

Supplied by Seymour Water Company. See Seymour.

BERLIN, 3,728.

BERLIN WATER COMPANY.
Pres., Frank L. Wilcox.....Berlin
V. Pres., Herbert M. Floyd..... "
Sec. & Treas., James J. Fitzsimons... "

Not in active operation. Have done only enough construction work to hold charter.

BETHEL, 3,041.

MUNICIPAL.
Comr., A. T. Noxon.....Bethel
" J. R. Evans..... "
Cons. Engrs., Scofield & Ford..Bridgeport
Supt., C. H. Hart.....Bethel
Chemist, Dr. H. Frank Moore..... "

Springs and impounding reservoirs; 1¼ mi. from center distribution; slow sand filter, 500,000 gal.; mechanical filter, 500,000 gal.; chemicals, copper sulphate, sulphate of alumina and soda ash.

Pumps, 1-350,000 gal. Gould; gasolene engine, one 25-hp.; elec. motor, 20-hp. 220 v. 3 ph. 60 cys. G. E.; pumping direct and to reservoir, 275,000,000 gal.

Pipe, 17 mi. 4 to 16-in. c. i.; hyd. 96, hose con. 2½ & 3-in. R. D. W. and Holyoke; valves, 58 Chapman; meters, none; av. daily cons. 250,000 gal.; serv. con 487; ord. pres. 60 to 125 lb., fire pres. same.

BRANFORD, 2,560.

THE BRANFORD WATER CO. Office, 100 Crown St., New Haven. (Controlled by the New Haven Water Co., same address.)
Pres. & Treas., Eli Whitney....New Haven
Sec., David Daggett..... " "
Supt., L. H. Warren.....Branford
Des. Engr., A. B. Hill.....New Haven

Branford river.

Steam furnished by Housatonic Power Co., pump, one steam turbine driven; pump ing to reservoir, 80,300,000 gal.

Pipe, 27 mi. 4 to 12-in. c. i.; hyd. 117, hose con. 2½-in.; meters, 721 various; av. daily cons. 300,000,000 gal.; serv. con. 1296; ord. pres. 50, fire pres. same.

Rates: flat, $7 year, bath $4, closet $4; meter, 30c. 1000 gal. max., 20c. min.

BRIDGEPORT, 2,560

BRIDGEPORT HYDRAULIC CO. Office 820 Main St. Supplies Fairfield, Southport and Stratford.
Pres., D. H. Warner.....Bridgeport
V. Pres. & Ch. Engr.,
S. P. Senior..... "
Sec., A. E. Lavery..... "
Treas., W. S. Wilmot..... "
Supt., D. H. Hall..... "
Cons. Engr., A. B. Hill, 100 Crown St., New Haven.

Small streams; 4 to 10 mi. from center distribution; impounding reservoirs, 8,-500,000,000 gal.; chemical, hypochlorite of lime.

Boilers, 6 return tubular 600-hp. Bigelow; land stoking; pumps, 3-25,000,000 Worth.; pumping direct and to reservoir, above.

Pipe, 130 mi. 4 to 48-in.; hyd 1600, hose con. 2½-in. Matthews; valves, r. h. thd.; meters, 2000 Thomson; av. daily cons. 20,000,000 gal.; serv. con. 16,000; ord. pres. 50 to 75 lb., fire pres. same.

Rates: flat, $12 year; meter, 13½c. 100 cu. ft. max., 3½c. min.

BRISTOL, 9,527.

MUNICIPAL. Office, 29 Prospect St. Supplies Forestville.

Chm. Comrs., Chas. L. Wooding....Bristol
Comr., Daniel F. Crowley..... "
Sec. & Des. Engr., Alexander Harper "
Supt., Arthur W. Jepson..... "

Impounding reservoirs; 4¼ mi. from center distribution, 3-364,000,000 gal.; no purification.

Gravity distribution from reservoir, 57,-000,000 gal.; standpipe (1900) 30 ft. in diam. 35 ft. high iron.

Pipe, 32 mi. 4 to 12-in. c. i.; 2½ mi. 14 to 30-in. c. i.; 700 ft. above 30-in. c. i.; hyd. 133, hose con. 2½-in., Ludlow; valves, 298 r. h. opening Rensselaer and Ludlow; meters, 1595; av. daily cons. 1,236,000 gal.; serv. con. 1961; ord. pres. 30 to 120 lb., fire pres. same.

Rates; flat, $6 year, bath $3, closet $3; meter, 18c. 100 cu. ft. max., 5½c. min.

BROAD BROOK, 1,000.

BROAD BROOK COMPANY. Office 209-211 State St., Hartford.

Pres., James Brook.....Hartford
Sec., Jos. P. Trumbull..... "

Supply is for the dye houses of the Broad Brook Company. A few houses near the mains are permitted to connect therewith.

BROOKLYN, 1,858.

Supplied by the Crystal Water Co. See Danielson.

BURLINGTON, 1,319.

Supplied by the Collinsville Water Co. See Collinsville.

CANAAN, 702.

Supplied by the Falls Village Light & Water Company. See Falls Village.

CANTON, 2,732.

Supplied by the Collinsville Water Company. See Collinsville.

CHESHIRE, 1,988.

Supplied by New Haven Water Co. See New Haven.

CHESTER, 1,419.

Supplied by Guilford Chester Water Company. See Clinton.

CLINTON, 1,274.

GUILFORD-CHESTER WATER COMPANY. Supplies Guilford, Madison, Westbrook, Essex, Saybrook, Deep River & Chester.

Pres., John Moran.....Pine Orchard
V. Pres., D. J. Greene.....Milford
Treas., C. S. Boies.....Seymour
Sec., J. B. Tuttle.....New Haven
Supt., O. B. Swain.....Clinton

Menunketesuck River; gravity distribution from reservoirs, 3.

Pipe, 55 mi. 4 to 8-in.; hyd. 124; meters, 8; serv. con. 1,716.

Rates; flat, $8 year, bath $4, closet $4.

COLLINSVILLE, 1,600.

THE COLLINSVILLE WATER COMPANY. Supplies Avon, Burlington & Canton.

Pres., William R. Wagner.....Collinsville
V. Pres., Marshall A. Clark.... "
Sec. & Treas., Chas. A. Farnham "

Springs; 2¼ mi. from center distribution; impounding reservoir, 2,000,000 gal.; no purification.

Gravity distribution.

Pipe, 9½ mi. 4 to 8-in. c. i.; hyd. 12, hose con. 2½-in. 10 R. D. W., 2 Pratt & Cady; valves, 40 r. & l. h. thd. Pratt&Cady; meters, 32, 28 Hersey, 4 Buffalo; av. daily cons. 150,000 gal.; serv. con. 554; ord. pres 10 to 100 lb., fire pres. 35 to 80 lb.

Rates: flat, $6 year, bath $3.50, closet $3.50.

COVENTRY, 1,606.

Supplied by South Coventry Water Supply Company. See South Coventry.

CROMWELL, 2,188.

CROMWELL WATER COMPANY.

Pres. & Treas., Watson S. Woodruff.Orange
Sec., Robt. J. Woodruff..... "

Pond; pumping to reservoirs.

Pipe, 4 mi. less than 4-in.; hyd. 54; serv. con. 140; ord. 0res. 75 lb.

Rates; flat, $8 year, bath $5, closet $5; meter, 40c. 1,000 gal. max., 20c. min.

DANBURY, 20,234.

MUNICIPAL.

Chm. Comrs., Emil Yoos.....Danbury
Comr., Harold Meeker..... "
" John Hines..... "
Supt., D. F. Stevens..... "
Cons. Engr., A. L. Davis,
30 Church St., New York, N. Y.

Lakes; 2 to 3 mi. from center distribution; impounding reservoir, 2-160,000,000 gal.; no purification.

Gravity distribution.

Pipe, 85 mi. 4 to 16-in. iron & cement, 2 mi. 18 to 30-in.; hyd. 375, hose con. 2½ & 4-in. Norwood and Ludlow; valves, r. h. thd. Ludlow; meters, 12 Neptune and Buffalo; av. daily cons. 5,500,000 gal.; ord. pres. 60 to 90 lb., fire pres. same.

DANIELSON, 2,934.

CRYSTAL WATER Co. Office, 14 Beacon St., Boston, Mass. Supplies Brooklyn & Killingly.

Pres., T. E. Hopkins.....Danielson
Sec., & Supt., Geo. S. Brown..... "
Treas. & Gen. Mgr., E. S. Wheeler...Boston

Impounding reservoirs, 2-125,135,000 gal.; gravity distribution.

Pipe, 14.5 mi. 4 & 6-in. & less; hyd. 68; meters, 37; serv. con. 611; ord. pres. 53 to 87 lb.

Rates; flat, $6 year, bath $5, closet $5; meter, min. charge $3.75 quarter, 25c. 1,000 gal. max., 10c. min.

DARIEN, 3,946.

THE TOKENEKE WATER Co.

Pres., Miner D. Randall.....Norwalk
Sec. & Pur. Agt.,
Charles F. Barker.....Rowayton
Treas., Thomas Alsop..... "
Cons. Engr., S. W. Hoyt, Jr. ..So. Norwalk
Chemist, State Board of Health....Hartford

Wells, 2 12 & 40-ft. in diam. 12 to 16 ft. deep; no purification.

Pumps, 1-36,000 gal. vert. triplex Goulds belted to elec. motor, 2-hp .104 v. s. ph. 60 cys. Wagner, 2-216,000 gal. vert. triplex 1908 3-216,000 gal. vert. triplex 1914; d. con. to gasoline engines, 2 12-hp. ea. National 1908 & 1914; purchase energy from Stamford Gas & Elec. Co.; pumping to standpipe (1905) 50,760 gal. steel.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 17 Ludlow; valves, 58 r. & l. h. opening Crane; meters, 70 National; av. daily cons. 50,000 gal.; serv. con. 74; ord. pres. 40 to 60 lb.

Rates; meter, $25 year 85,000 gal.; 30c. 1,000 gal.

DEEP RIVER, 1,325.

Supplied by Guilford Chester Water Company. See Clinton.

DERBY, 9,000.

BIRMINGHAM WATER Co., Office, 22 Elizabeth St.

Pres., Treas. & Gen. Mgr.,
Charles H. Nettleton.....Derby
Sec., George H. Scranton..... "

Springs and brooks; impounding reservoirs, 121,606,000 gal.

Gravity distribution.

Pipe, 22 mi. c. i.; hyd. 123; meters, 230; av. daily cons. 1,000,000 gal.; serv. con. 1163; ord. pres. 50 to 120 lb., fire pres. same.

Rates: flat, $6 to $12 year, bath $3, closet $3; meter, 30c. 1000 gal., 10c. min.

DURHAM, 997.

DURHAM AQUEDUCT Co.

Pres., E. S. Markham.....Durham
Sec., John R. Smith..... "
Treas., Fred. M. Alling..... "

Spring; 1½ mi. from center distribution; impounding reservoir, 20x20x14 ft.

Gravity distribution.

Pipe, 1½ mi. under 4-in.; av. daily cons. 81,000 gal.; serv. con 45.

Rates: flat, $5 year.

EAST HADDAM, 2,422.

MUNICIPAL.

EAST HARTFORD, 8,138.

MUNICIPAL. Supplies Glastonbury, Manchester & South Windsor.

Supt., John H. Walsh.....East Hartford
Sec., R. D. Olmsted..... " "

Salmon Brook & springs; 7 mi. from center business section.

Gravity distribution from reservoir, 3-10,000,000 gal., pipe, 70 mi. 4 to 16-in. c. i.; hyd. 225, hose con. 2½-in. Pratt & Cady; valves, 200 r. h. opening Pratt & Cady; meters, 35 Neptune & National; av. daily cons. 1,200,000 gal.; serv. con. 2,200; ord. pres. 45 to 65 lb., fire pres. same.

Rates; flat, $6 year, bath $4, closet $3; meter, 30c. 1,000 gal. max., 15c. min.

EAST HAVEN, 1,795.

Supplied by New Haven Water Co. See New Haven.

EAST NORWALK, 3,000.

Supply from South Norwalk.

EAST WINDSOR, 3,362.

Supplied by Thompsonville Water Co. See Thompsonville.

ELLINGTON, 1,999.

ELLINGTON WATERWORKS.

Owner, F. M. Charter.....Ellington

Springs; pipe, 2.5 mi. c. i. & wood; av. daily cons. 6,000 gal.; serv. con. 60; ord. pres. 80 lb.

Rates; flat, $6 year.

ENFIELD, 9,719.

THOMPSONVILLE WATER COMPANY. See Thompsonville.

Partly supplied by HAZARDVILLE WATER Co. See Hazardville.-

ESSEX 2,745.

Supplied by GUILFORD-CHESTER WATER Co. See Clinton.

FAIRFIELD, 6,134.

Supplied by Bridgeport Hydraulic Co. See Bridgeport.

FALLS VILLAGE, 671.

FALLS VILLAGE LIGHT & WATER COMPANY. Supplies Canaan.

Pres., Henry C. Gaylord.....Falls Village
Sec. & Treas., J. S. Tracy..... " "

Springs; gravity distribution from reservoirs, 2-12,000 gal.

Pipe, 0.5 mi. less than 4-in.; serv. con. 24.

Rates; flat, $8 year, bath $4, lcoset $4.

FARMINGTON, 897.
FARMINGTON WATER CO.
Pres., E. H. Deming.....Farmington
Sec., Treas. & Gen. Mgr.,
A. R. Wadsworth..... "
Impounding reservoirs, 2-80,180,000 gal.; pumping & gravity distribution.
Pipe, 3.8 mi. 4-in. & less c. i.; hyd. 33; serv. con. 1,362; ord. pres. 65 lb.
Rates; flat, $5 year; bath $3, closet $3; meter, min. charge $2.50 quarter, 20c. 1,000 gal. max., 12c. min.

FORESTVILLE, 3,000.
Supplied by the Bristol Water Co. See Bristol.

GALES FERRY, 184.
THE LEDYARD WATER CO.
Pres., Henry W. Hurlbutt.....Gales Ferry
Sec.-Treas., Courtland E. Colver " "
Company has organized but is not yet in operation.

GILDERSLEEVE, 1,200.
Supplied by the Portland Water Co. See Portland.

GLASTONBURY, 4,796.
Supplied by South Glastonbury Water Co. See South Glastonbury.

GRANBY, 1,383.
SALMON BROOK WATER COMPANY.
Pres., Charles Coffey.....Granby
V. Pres., T. M. Maltbie..... "
Sec. & Treas., T. G. Case..... "
Bissell's brook; pumping direct.
Pipe, one mi. 4-in. & less iron; serv. con. 60.

GREENWICH, 3,836.
GREENWICH WATER COMPANY. Supplies Port Chester, N. Y., & Ripe, N. Y.
Pres., R. J. Walsh.....Greenwich
V. Pres. & Treas., J. W. Diehl.Port Chester
Sec., W. B. Todd..... " "
Supt., W. J. Wilson..... " "
Impounding reservoirs, 2-1,033,000,000 gal.; gravity distribution.
Pipe, 70.5 mi. 4 to 8-in. & less iron; hyd. 208; meters, 1,862; serv. con. 2,317; ord. pres. 40 lb.
Rates; flat, $8.80 year, bath $5.50, closet $5.50; meter, min. charge $2.25 quarter 1,000 cu. ft., $2.20 1,000 cu. ft.

GRISWOLD, 200.
Supplied by Jewitt City Water Co. See Jewitt City.

GROTON, 1,895.
Supplied by Mystic Valley Water Co. See Stonington.

GUILFORD, 1,608.
Supplied by Guilford-Chester Water Company. See Clinton.

HAMDEN, 5,850.
Supplied by New Haven Water Co. See New Haven.

HARTFORD, 98,915.
MUNICIPAL.
Pres. Comrs., Walter S. Garde..Hartford
Sec., Fred D. Berry..... "
Ch. Engr., Caleb Mills Saville.... "
Cons. Engr.,
John R. Freeman.Providence, R. I.
" " F. P. Stearns...Boston, Mass.
Chemists,
Newlands Sanitary Laboratory..... " "
Storage reservoirs in West Hartford, 6 mi.; and in New Hartford, 20 mi. from center distribution; impounding reservoirs, 2-10,100,000,000 gal.; equalizing reservoir 3,000,000,000 gal.; filters, 10,000,000 gal.; chemical, liquid chlorine.
Gravity distribution from reservoir, 146,-000,000 gal.
Pipe, 176 mi. 4 to 30-in. c. i. & cement lined; hyd. 1436, hose con. 2½ & 4½-in. Chapman and Pratt & Cady; valves, 3150 r. h. thd. Pratt & Cady; meters, 13,422 various, av. daily cons. 9,400,000 gal.; serv. con. 13,655; ord. pres. 20 to 100 lb., fire pres. same.
Rates: meter, 12c. 100 cu. ft. max., 6c. min.

HARWINTON, 1,440.
Supplied by the Torrington Water Co. See Torrington.

HAZARDVILLE, 850.
HAZARDVILLE WATER COMPANY. Supplies Scitico.
Pres., Allyn G. Bridge.....Hazardville
Sec., Treas. & Gen. Mgr.,
H. E. Bridge..... "
Springs & wells, 8-in. 257-ft deep; ¼ mi. from center distribution; no purification.
Boilers, hor. tubular 15-hp. Nagle 1906; hand stoking; pumps, 1-1,000,000 gal. hor. simple direct duplex Knowles, 1-100,000 gal. vert. double deep well Keystone 1910; pumping to elev. tanks, 2 (1892, 1898) 80,000 gal. wood.
Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 18, hose con. 2½ & 4-in. Chapman; valves, 15 l. h. opening Chapman; meters, one Buffalo; av. daily cons. 22,000 gal.; serv. con. 201; ord. pres. 25 to 40 lb., fire pres. same.
Rates; flat, $8 year, bath $5, closet $5; meter $2 quarter, 35c. 1,000 gal.

JEWETT CITY, 3,023.
JEWETT CITY WATER COMPANY. Supplies Griswold & Lisbon.
Pres., Wm. A. Wright.....New Haven
V.Pres.& Gen.Mgr., A. A.Young.Jewett City
Sec. & Treas., Wm. S. Pardee..New Haven
Impounding reservoir, 1-90,000,000 gal.; gravity distribution.
Pipe, 8.75 mi. 4-in. c. i.; hyd. 87; meters, 7; serv. con. 278; ord. pres. 115.

Rates; flat, $6 year, bath $4, closet $4, meter, min. charge $2.50 quarter, $2 1,000 cu. ft. max., 5c. 100 cu. ft. min.

KILLINGLY, 1,000.

Supplied by the Crystal Water Co. See Danielson.

LAKEVILLE, *2,500.

LAKEVILLE WATER CO.

Pres., D. T. Warner.....Salisbury
Sec., Thos. Martin.....Lakeville
Treas& Supt., A. C. Roberts..... "

Springs and brooks; 2 mi. from center distribution.

Gravity distribution from reservoirs, 2-20,000,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2-in. Ludlow; meters, none; av. daily cons. 200,000 gal.; serv. con. 250; ord. pres. 125 to 150 lb., fire pres. same.

Rates: flat, $5 year, bath $4, closet $4.

LISBON, 824.

Supplied by Jewitt City Water Co. See Jewitt City.

LITCHFIELD, 903.

LITCHFIELD WATER COMPANY.

Pres., Treas. & Gen. Supt.,
Wm. T. Marsh.....Litchfield
V. Pres., James P. Woodruff..... "
Sec., Charles H. Cort..... "

Artesian wells, 5-3-in. 90 ft. deep; 5 mi. from center distribution; impounding reservoir, 5 acres.

Boilers, 2 vertical 80-hp.; hand stoking; pumps, 2-432,000 gal. Worth.; pumping direct and to standpipe (1891) 30 ft. in diam. 40 ft. high.

Pipe, 10 mi. c. i.; hyd. 40; meters, none; av. daily cons. 430,000; serv. con. 300; ord. pres. 60 lb., fire pres. same.

Rates: flat, $12 year, bath $5, closet $6.

MADISON, 1,534.

Supplied by Guilford-Chester Water Company. See Clinton.

MANCHESTER, 13,641.

MANCHESTER WATER COMPANY.

Pres., William Foulds.....Manchester
V. Pres., Edwin A. Lydall..... "
Sec. & Treas., Arthur J. Straw. "
Gen. Mgr., Jasper A. Fitch.... "

Springs and brooks; impounding reservoirs, 2-40,000,000 gal.

Gravity distribution.

Pipe, 11 mi. 4 to 16-in. cement lined; hyd. 64 Ludlow; meters, 8; serv. con. 392; ord. pres. 65 to 70 lb., fire pres. same.

Rates: flat, $8 year, bath $3, closet $3.

HIGHLAND PARK WATER COMPANY.

Office, Highland Park, Manchester, Conn.
Pres., A. W. Case.....Highland Park
Sec., R. N. Stanley..... " "
Treas., L. W. Case..... " "

Springs; pumping to reservoir, 1,000,000 gal.

Pipe, 2 mi. 4 & 6-in. c. & galv. i.; hyd. 5; serv. con. 33; ord. pres. 50 lb.

Partly supplied by East Hartford.

MERIDEN, 32,066.

MUNICIPAL. Meriden Water Dept. Office, Room 5, Town Hall Bldg.

Mayor, D. J. Donovan.....Meriden
Mbrs. Bd. Pub. Wks.,
Wm. A. Penfield.....
Wm. H. Lyon.....
Chas. L. Rockwell.....
J. D. Eggleston.....
Chas. L. Rockwell.....
J. D. Eggleston.....

Impounding reservoirs fed by springs; 4-1,625,000,000 gal.

Boilers, 2 return tubular 100-hp. ea. 90 lb. Bigelow 1891, one water-tube 170-hp. 125 lb. Heine 1905; pumps, 1-5,000,000 gal. hor. d. act. Knowles 1891, 1-5,000,000 gal. hor. d. act. Builders 1905, 2-3,000,000 gal. centrifugal d. con. to elec. motors, 1915; pumping direct & to reservoirs, 2-25,000,-000 gal.

Av. daily cons. 3,500,000 gal.; serv. con. 4,500; ord. pres. 40 to 135 lb., fire pres. same.

Rates; flat, $5 year, bath $2, closet $3; meter, 11.25c. 100 cu. ft.

MIDDLETOWN, 27,265.

MUNICIPAL.

Pres Comrs.,
Howard H. Warner.....Middletown
Comr., George C. Moore..... "
" Thomas Hoops, Jr..... "
" John P. Bacon..... "
Sec., Albert A. Hurd..... "
Supt., Gordon Z. Smith..... "
Chemist,
James A. Newlands.....Boston, Mass.

Impounding reservoirs, 530,750,000 gal.; 3 mi. from center distribution; no purification.

Gravity distribution.

Pipe, 38 mi. 4 to 30-in. c. i.; hyd. 205; hose con. 2½-in. various; valves, 338 r. h. thd. Chapman; meters, 125 various; av. daily cons. 1,600,000 gal.; serv. con. 2500; ord. pres. 60 to 80 lb., fire pres. 80 to 120 lb.

Rates: flat, $5. year.

MILFORD, 4,366.

MILFORD WATER CO. Office, 100 Crown St., New Haven. Supplies Woodmonk. (Controlled by New Haven Water Co., same address.)

Pres. & Treas., Eli Whitney...New Haven
V. Pres., James English..... " "
Sec., David Daggett..... " "
Supt., W. S. Fenn.....Milford
Chemist, Walter Connor..... "
Des. Engr., A. B. Hill.....New Haven

Beaver Brook; at center distribution; impounding reservoir 20,000,000 gal.; no purification.

Boilers, 3 Bigelow; hand stoking; pumps, 2-2,000,000 De Laval; pumping to standpipe, iron.

Pipe, 40½ mi. 4 to 12-in. iron; hyd. 150, hose con. 2½-in. R. D. W.; meters, 65 various makes; av. daily cons. 3,600,000 gal.; serv. con. 2240; ord. pres. 52 lb.

Rates: flat, $7 year, bath $4, closet $4; meter, min. charge $10 year, 30c. 1000 gal. max., 11c. min.

MYSTIC, 4,500.

Supplied by the Mystic Valley Water Co. See Stonington.

NAUGATUCK, 12,722.

THE NAUGATUCK WATER CO.

Pres., Dwight P. Mills.....Naugatuck
Sec., Treas. & Gen. Mgr.,
E. C. Barnum..... "

Brooks & springs; 3 mi. from center business section; no purification.

Gravity distribution from reservoirs, 7-625,000,000 gal.

Pipe, 43 mi. 1 to 20-in. c. & w. i.; hyd. 145, hose con. 2½-in. Ludlow; valves, 325 r. h. opening Ludlow & Rensselaer; meters, 75 various; av. daily cons. 1,750,000 gal.. serv. con. 1,600; ord. pres. 40 to 110 lb., fire pres. same.

Rates; flat, $5 year, bath $3, closet $3; meter, 25c. 1,000 gal. max., 10c. min.

NEW BRITAIN, 43,916.

MUNICIPAL.

Chm. Comrs., Chas. F. Chase..New Britain
Comr., W. B. Rossberg..... " "
" P. J. Eagan..... " "
Supt., Jas. H. Lowers..... " "

Brooks, 3 mi. from center distribution; impounding reservoir, 1,600,000,000 gal.; no purification.

Gravity distribution from reservoirs, 2-4,400,000,000 gal.; high service reservoir.

Pipe, 67 mi. 4 to 30-in. c. i.; hyd. 636, hose con. 2½-in. various; valves, 1201 l. h. thd. various; meters, 4824 various; av. daily cons. 4,000,000 gal.; ord. pres. 25 to 120 lb., fire pres. same.

NEW CANAAN, 3,667.

NEW CANAAN WATER CO.

Pres., L. M. Monroe, Jr.....New Canaan
V. Pres., James R. Mead.....Greenwich
Sec. & Treas., W. S. Pardee....New Haven
Chemist, H. H. Mead.....New Canaan
Cons. Engr., A. B. Hill.....New Haven

Impounding reservoir on Five Mile River, 70,000,000 gal.; 4 mi. from center distribution; mech. filters, 1,000,000 gal. N. Y. C. Jewell; chemical, sulphate of alumina.

Gravity distribution.

Pipe, 8.5 mi. 4 to 12-in. c. i. & cement lined; hyd. 51, hose con. 2½-in. Ludlow; valves, 50 r. h. thd. Ludlow; meters, 8 Neptune & Pittsburgh; av. daily cons. 300,000 gal.; ord. pres. 55 lb., fire pres. same.

Rates; flat, $9 year, bath $6, closet $6; meter, 30c. 1,000 gal.

NEW HARTFORD, 2,144.

NEW HARTFORD WATER COMPANY.

Pres. & Gen. Mgr.,
G. W. Priest.....East Orange
V. Pres., Carl Strackosh.....New Hartford
Sec., F. B. Munn..... " "
Treas., E. M. Priest..... " "

Springs; gravity distribution from reservoir; 3,500,000 gal.

Pipe, 6.5 mi. 4-in. & under c. i.; hyd. 60; serv. con. 245; ord. pres. 120 to 141 lb.

Rates; flat, $6 year, bath $3, closer $5; meter, min. charge $16 year 50,000 gal., 30c. 1,000 gal.

VILLAGE WATER CO.

Pres., W. C. Woodruff.....New Hartford
V. Pres., Wallace Case..... " "
Sec. & Treas., C. E. Jones... " "

Spruce brook; gravity distribution from reservoirs, 2-1,250,000 gal.

Pipe, one mi., ord. pres. 25 to 40 lb.

Rates; flat, $6 year, closet $3.

NEW HAVEN, 133,605.

NEW HAVEN WATER CO. 100 Crown St. Supplies Cheshire, East Haven and Hamden. Also operates Branford Water Co., Milford Water Co., North Haven Water Co., West Haven Water Co., Westville Water Co.

Pres. & Treas., Eli Whitney....New Haven
Sec., David Daggett..... "
Supt., E. E. Minor..... "
Des. Engr., A. B. Hill..... "

Lakes and rivers, 2 mi. from center distribution; slow sand filter, 20,000,000 gal.; chemicals, chlorine gas.

Boilers, 7 Bigelow; pumps, 2-20,000,000 gal. Worth., 2-20,000,000 Allis-C., 1-10,000,000 gal. Builders, pumping to reservoirs, 12-2,872,375,000 gal.

Pipe, 253 mi. 4 to 30-in. iron; hyd. 1025, hose con. 2½-in.; meters, 3460 various; av. daily cons. 23,000,000 gal.; serv. con. 22,000,000; ord. pres. 35 to 45 lb., fire pres. same.

Rates: flat, $5 year, bath $3, closet $3; meter, min. charge $2 quarter, 18c. 1000 gal. max., 10c. min.

NEW LONDON, 19,659.

MUNICIPAL.

Pres. Comrs.,
B. A. Armstrong.....New London
Sec., Wm. T. May..... " "
Supt. & Des. Engr.,
W. H. Richards..... " "

Lake Konomoc; 6 mi. from center distribution; impounding reservoir, 600,000,000 gal.; no purification.

Pumps, 2 rotary & 1 triplex 500,000 gal. belt driven from elec. motors, 15 & 10 kw.; pumping to reservoir, 500,000 gal. and elevated tank, 94½ ft. high 91,000 gal.

Pipe, 70 mi. 4 to 24-in. c. i.; hyd. 401, hose con. 2½-in. various; valves, 623 r. h. opening; meters, 940 various, av. daily cons.

2,986,000 gal.; serv. con. 4226; ord. pres. 20 to 100 lb., fire pres. same.

Rates: flat, $4.50 year, bath $2, closet $2; meter, min. charge $1.20 half year 20,000 gal., 75c. 1000 gal. max., 45c. min.

NEW MILFORD, 5,010.

NEW MILFORD WATER COMPANY. Office, Union Bank Bldg.

Pres., A. H. McMahon.....New Milford
Sec. & Treas., M. G. Merwin.. " "
Supt., V. P. Staub..... " "

Springs; gravity distribution from reservoirs, 3-67,000,000 gal.

Pipe, 10 mi. 4 & 6-in. c. i.; hyd. 43; serv. con. 533; meters, 4; ord. pres. 85 lb.

Rates; flat, $7 year, bath $4, closet $4.

NEWTON, *1000.

NEWTON WATER CO.

Pres., C. B. Taylor.....Newton
Sec., W. A. Leonard..... "
Treas., L. C. Morris..... "
Supt., W. B. Glover..... "

Taunton Lake; 3 mi. from center distribution; no purification.

Pumps, 2-864,000 gal. Goulds; direct con. to gasolene engines, 2 25-hp. ea. Nat'l.; pumping to reservoir 32x52 ft., 180,000 gal.; standpipe (1906) 15 ft. high, cement.

Pipe, 4½ mi. 4 to 12-in. c. i. & w. i.; hyd. 33, hose con. 2 & 2½-in. R. D. W. and Norwood; valves, 10 r. h. thd. R. D. W.; meters, 12 Thomson, Neptune and National; av. daily cons. 50,000 gal.; serv. con. 90; ord. pres. 20 to 90 lb., fire pres. 90 lb.

Rates: flat, $10 year, bath $3, closet $4; meter, 35c. 1000 gal. max., 25c. min.

NORFOLK, 1,541.

NORFOLK WATER COMPANY.

Pres., F. M. Shepard.....Norfolk
V. Pres., Ralph I. Crissey..... "
Sec.-Treas. & Gen. Mgr.,
Edmund Brown..... "

Lake Wangum; gravity distribution from reservoir, 200,000,000 gal.

Pipe, 11 mi. c. i.; hyd. 66; serv. con. 279; ord. pres. 50 to 150 lb.

Rates; flat, $6 year, bath $3, closet $3.

NOROTON, 300.

NOROTON WATER CO. Office, Darien.

Pres., Wm. S. Champ....New York, N. Y.
Sec., W. J. Underwood... " " " "
Treas., Cyril Crimmins... " " " " "
Gen. Mgr.,
Harold H. Mead..... New Canaan

Buy water from Stamord Water Co. See Stamford.

Pipe, 10 mi. 4 to 10-in.; hyd. 71; serv. con. 173; meters, 173; ord. pres. 55 to 65 lb.

Rates; meter, min. charge $2.50 quarter, 35c. 1,000 gal.

NORTH CANAAN, *850.

NORTH CANAAN WATER CO.

Pres. & Treas., H. E. Lyles..North Canaan
Sec., Geo. P. Hardenburgh.. " "
Supt., J. E. Rhoades..... " "

Mountain springs; 2 mi. from center distribution; impounding reservoir, 3,000,000 gal.; no purification.

Pumps, 1-1,560,000 gal., 1-1,728,000 gal. Deane; belt driven from elec. motors, 2, 13 & 20 kw. 220 v. 3 ph. 60 cys. G. E.; pumping direct.

Pipe, 6¾ mi. 2 to 6-in. c. i.; hyd. 12, hose con. 2½-in. Pratt & Cady; valves, 36 l. h. thd. various; meters, 10 various; av. daily cons. 80,000 gal.; serv. con. 304; ord. pres. 90 to 95 lb., fire pres. same.

Rates: flat, $3.33 half year, bath $1.67, closet $1.67; meter, 30c. 1000 gal. max., 6c. min.

NORTH HAVEN, 2,254.

Supplied by New Haven Water Co. See New Haven.

NORWALK, 8,968.

MUNICIPAL. Supplies East Norwalk.

Pres. Comrs.,
Horace R. Nash.....South Norwalk
Sec., D. Wm. Harford..... " "
Supt., Stephen S. Hatch.... " "
Cons. Engr., Wm. S. Johnson,
101 Tremont St., Boston
Cons. Engr., Harry W. Clark..... "

Streams; 6½ mi. from center distribution; impounding reservoirs, 4-676,904,000 gal.; slow sand filters, 2,500,000 gal., double filtration, double aeration.

Gravity distribution except for small section of 100 families; pumps, 2 elec. units; motors, 10-hp. ea. d. c.; elevated tank, 100 ft. high, 50,000 gal. wood.

Pipe, 10½ mi. 4 to 20-in. c. i.; hyd. 250 R. D. W.; valves, Ludlow; meters, 150 mostly National; av. daily cons. 2,500,000 gal.; serv. con. 2600; ord. pres. 85 lb.

NORWICH, 20,367.

MUNICIPAL. Office, 56 Spruce St.

Comr., A. S. Comstock.....Norwich
" P. F. Bray..... "
" J. F. Williams..... "
" F. J. Kelly..... "
" H. Blackledge..... "
Supt., John J. Corkey..... "
Cons. Engrs., Chandler & Palmer.. "

Gravity distribution from reservoirs, 2-838,000,000 gal.; pipe, 60 mi. 4 to 24-in. c. i.; hyd. 500, hose con. 2½-in. Rensselaer, Pratt & Cady, Ludlow, Kennedy & Norwood; valves, 510 r. h. opening various; meters, 950 various; av. daily cons., 2,200,000 gal.; serv. con. 3,900; ord. pres. 20 to 115 lb., fire pres. same.

Rates; flat, $5 year, bath $3, closet $3; meter, $1.25 quarter 500 cu. ft.

ORANGE, 1,200.

Supplied by New Haven Water Co. See New Haven.

PAWTUCKET, 3,500.

Supplied by Westerly Water Company. See Westerly, R. I.

PLAINFIELD, 6,719.

PLAINFIELD WATER CO.

Pres., Floyd Cranska.....Plainfield
V. Pres.,
Frank H. Tillinghast.....Central Village
Sec., Fred. W. Tillinghast... " "
Treas., John W. Atwood.....Wauregan

This company has not yet begun service operations.

PLAINVILLE, 2,882.

PLAINVILLE WATER CO. Office, Odd Fellows Bldg., West Main St.

Pres., C. H. Calor.....Plainville
V. Pres., J. B. Minor..... "
Sec., Treas. & Gen. Mgr., Jos. N. McKernan..... "
Chemists, Davenport & Keeler, Inc. New Britain

Crescent Lake & wells, 30 2½-in. 28 to 31 ft. deep; one & 2.5 mi. from center distribution; chemical, copper sulphate.

Pumps, 1-720,000 gal. Deane d. con. to oil engine 50-hp. De La Vergne; pumping direct, to reservoir, 160,000 gal. & standpipe (1912) concrete.

Pipe, 11.87 mi. 4 to 12-in. c. i. & cement lined; hyd. 59, hose con. 2½-in. Ludlow; valves, 50 l. h. thd. Ludlow; meters, 93 National, Neptune, Worth., Thomson & Pittsburgh; av. daily cons. 250,000 gal; serv. con. 443; ord. pres. 95 to 115 lb., fire pres. same.

Rates; flat, $5 year, bath $3, closet $3; meter, 20c. max., 4c. min.

PLYMOUTH, 5,021.

Supplied by Terryville Water Co., See Terryville.

PORTLAND, 3,425.

PORTLAND WATER CO. Supplies Gildersleeve.

Pres., Alfred Gildersleeve.....Gildersleeve
V. Pres., George E. Shaw.....Putnam
Sec., F. Gildersleeve.....Gildersleeve
Treas., J. Stewart Hall.....Portland
Supt., J. Allen Butler..... "

Springs and mountain streams; 4 mi. from center distribution; impounding reservoir, 1-70,000,000 gal.; no purification.

Gravity distribution.

Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 87, 2½-in Coffin; valves, 70 r. h. thd. Coffin; meters, 4 Hersey; av. daily cons. 250,000 gal.; serv. con. 628; ord. pres. 80 to 90 lb., fire pres. 97 to 108 lb.

Rates: flat, $6 year, bath $5, closet $5; meter, 25c. 1000 gal. max., 13c. min.

PUTNAM, 6,637.

MUNICIPAL.

Chm. Comrs., Edw. Mullan.....Putnam
Sec., G. H. Kilpatrick..... "
Comr., G. Allen Hawkes..... "
Supt., C. Dwight Sharpe..... "
Engrs. P'g. Sta.,
I. C. Bates & E. L. Bradley..... "

Little River and Roseland Lake; 2½ mi. from center distribution; impounding reservoir, 100 acres; slow sand filter, 2,000,000 gal., chemicals, none.

Boiler, hor. tubular 60-hp. Hodge; hand stoking; pumps, 1-1,250,000 gal. Deane, 1-1,000,000 gal. Worth. driven by waterturbine, Holyoke; pumping to standpipe (1885) 30 ft. in diam. 45 ft. high 240,000 gal. iron.

Pipe, 17 mi. 4 to 12-in. c. i.; hyd. 93, hose con. 2½ in. Coffin and others; valves, 135 r. h. opening Coffin; meters, 100 various; av. daily cons. 600,000 gal.; serv. con. 1028; ord. pres. 35 to 95 lb., fire pres. same.

Rates: flat, $6 year, bath and closet $8.

RIDGEFIELD, 1,114.

RIDGEFIELD WATER SUPPLY COMPANY.

Pres. & Gen. Mgr., George Kirk, Jr., Ridgefield
Sec., E. M. Bailey..... "
Treas., C. A. Cornen, Jr..... "

Round Pond; pumping to standpipe, 2-188,000 gal.

Pipe, 11 mi. c. i.; hyd. 70; serv. con. 331; meters, 206; ord. pres. 75 to 90 lb.

Rates; flat, $12.10 year, both $7.26, closet, $7.26; meter, 48c. 1,000 gal.

ROCKVILLE, 7,977.

THE ROCKVILLE WATER & AQUEDUCT CO.

Pres., Francis J. Regar.....Rockville
Sec.-Treas., George B. Hammond. "
Supt. & Engr. P'g Sta., A. T. Thompson..... "

Pumps, 1-349,200 gal. vert. triplex Goulds 1904, belted to elec. motor, 35-hp. 220 v. 3 ph. 60 cys. G. E. 1910; water-turbine, 50-hp. Hunt; purchase energy from Rockville-Willimantic Lighting Co.; pumping to standpipe (1899) 317,000 gal.

Pipe, 23 mi. 1¼ to 20-in. c. & w. i.; hyd. 169, hse con. 2½-in. Ludlow; valves, l. h. opening Ludlow; meters, 373 various; serv. con. 1,200; ord. pres. 10 to 105 lb., fire pres. 25 to 105 lb.

Rates; flat, $5 year, bath $2, closet $3.50; meter, 20c. 1,000 gal.

SALISBURY, 3,522.

Supplied by Lakeville Water Co. See Lakeville.

SAYBROOK, 1,907.

Supplied by Guilford-Chester Water Co. See Clinton.

SEYMOUR, 4,786.

SEYMOUR WATER COMPANY. Office, 58 Waverly St., New Haven. Supplies Beacon Falls.

Pres., W. H. H. Wooster.....Seymour
Sec. & Treas., D. A. Blakeslee.... "

Impounding reservoirs, 2; gravity distribution.

Pipe, 16 mi. c. i.; hyd. 59; serv. con. 527; meters, 15.

Rates; flat, $7 year, bath $4, closet $3; meter, 3c. 100 gal. max., 1c. min.

ANSONIA WATER CO. Supplies part of Seymour. See Ansonia.

FOUNTAIN WATER COMPANY. Supplies part of Seymour. See Ansonia.

SHARON, 1,880.

SHARON WATER COMPANY.
Pres., Wm. T. Marsh.....Litchfield
Sec., Chas. R. Pancoast...Philadelphia, Pa.
Treas., I. N. Bartram.....Sharon
Spring & reservoirs, 3-23,842,560; gravity distribution.
Pipe, 8 mi. 4 & 6-in. c. i.; hyd. 25; serv. con. 143; meters, 9.
Rates; flat, $10 year, bath $4, closet $4.

SHELTON, 4,807.

SHELTON WATER CO. Office, 293 Main St., Derby.
Pres., G. A. Shelton.....Shelton
V. Pres., M. B. Perry..... "
Sec., Treas. & Gen. Mgr.,
D. E. Brinsmade..... "
Springs & brooks; reservoirs, 2-105,000,000 gal.; gravity distribution with emergency pumping.
Pipe, 15.2 mi. c. & galv. i.; hyd. 84; meters, 96; serv. con. 734; ord. pres. 60 to 100 lb.
Rates; flat, $6 year, bath $3, closet $3; meter, 30c. 1,000 gal. max., 10c. min.

SIMSBURY, 2,537.

SIMSBURY WATER COMPANY.
Pres., Horace Belden.....Simsbury
V. Pres., J. O. Phelps, Jr..... "
Sec., George C. Ens..... "
Treas. & Gen. Mgr., Horace Belden "
Grimco Brook; gravity distribution.
Pipe, 2 mi. c. i.; hyd. 12.
Rates; flat, $6 year.

VILLAGE WATER COMPANY OF SIMSBURY.
Pres., L. S. Ellsworth.....Simsbury
V. Pres., Geo. P. McLean..... "
Treas., H. E. Ellsworth..... "
Clerk, J. R. Ensign..... "
Stratton's Brook; gravity distribution from reservoirs, 2-4,000,000 gal.
Pipe, 7.85 mi. c. & galv. i.; hyd. 51; serv. con. 225; ord. pres. 60 lb.
Rates; flat, $6 year, closet $3.

SOMERS, 1,653.

THE SOMERS WATER CO.
Owners { C. S. Fuller.....Somers
A. L. Hurd..... "
Gravity distribution from reservoir; pipe, 2¼ mi. 2-in.; meters, one; serv. con. 60; ord. pres. 50 to 65 lb.
Rates; flat, $8 year, bath $4, closet $4.

SOUTH COVENTRY, *1,000.

THE SOUTH COVENTRY WATER SUPPLY CO. Supplies Coventry.
Pres., E. A. Tracy.....South Coventry
V. Pres., Thos. H. Wood... " "
Sec., Treas. & Gen. Mgr.,
Curtis Dean..... " "
Lake Wamgumbaug; ¼ mi. from center distribution; no purification.
Gravity distribution.
Pipe, one mi. 4 to 6-in. c. i.; hyd. 7, hose con. 4-in.; meters, none; serv. con. 50; ord. pres. 10 to 40 lb., fire pres. same.
Rates; flat, $5 year, bath & closet $3.

SOUTH GLASTONBURY, *1,000.

SOUTH GLASTONBURY WATER COMPANY
Pres., John W. Hose....South Glastonbury
V. Pres., A. W. Crane.. " "
Sec.-Treas. & Gen. Mgr.,
L. W. Howe..... " "
Ackley Brook; gravity distribution from reservoirs, 2-4,500,000 gal.
Pipe, 4 mi. c. & 2. i.; serv. con. 81; ord. pres. 60 to 100 lb.
Rates; flat, $8 year, bath $3, closet $3; meter, 3c. 100 glal max., 1.5c. min.

SOUTH MANCHESTER, 7,000.

THE SOUTH MANCHESTER WATER CO.
Pres., Frank Cheney, Jr..South Manchester
Sec., C. H. Cheney..... " "
Treas., Charles Cheney.. " "
Supt., J. D. Cheney..... " "
Asst. Supt., F. H. Parker " "
Small brooks and springs; impounding reservoir, 124,000,000 gal.
Gravity distribution from reservoir, 32,000,000.
Pipe, 25.5 mi. 4 to 12-in. c. i.; hyd. 200, hose con. 2½ & 4½-in. mostly Ludlow; valves, 200 r. h. opening Ludlow; meters, 1100 National; serv. con. 1500; ord. pres. 15 to 100 lb., fire pres. 50 to 100 lb.
Rate, flat, $7 year, bath $2.50, closet $4; meter, 25c. 1000 gal. max., 20c. min.

SOUTH NORWALK.

Has become the Second Taxing District of Norwalk. See Norwalk.

SOUTHINGTON, 3,714.

MUNICIPAL.
Pres., James H. Pratt.....Southington
Sec.-Treas., Edwin S. Todd.... "
Comr., Jos. H. Martin..... "
Supt., S. H. Mackenzie..... "
Des. Engr., T. H. McKenzie... "
Chemist, State Board.....Middletown
Humiston Brook & impounding reservoirs, 2-110,000,000 gal.; 2.5 mi. from center business section; no purification.
Gravity distribution from reservoirs, 2-53,000,000 gal.; pipe, 31 mi. ¾ to 12-in. c. & w. i.; hyd. 152, hose con. 2½-in. various; valves, 294 r. h. opening Ludlow, Chapman, Pratt & Cady & Rensselaer; meters, 94 various; av. daily cons. 500,000 gal.; serv. con. 1,102; ord. pres. 40 to 120 lb., fire pres. 40 to 135 lb.
Rates; flat, $3.25 6 mo., bath $1, closet $1.75; meter, $3 quarter 1,000 cu. ft., 25c. 100 cu. ft. max., 4c. min.

SOUTHPORT, 1,479.

Supplied by Bridgeport Water Co. See Bridgeport.

SPRAGUE, *2,551.

Supplied by the Baltic Water Co. See Baltic.

STAFFORD, 500.

Supplied by Stafford Springs Aqueduct Co. See Stafford Springs.

STAFFORD SPRINGS, 3,059.

STAFFORD SPRINGS AQUEDUCT COMPANY.

Pres., Donald Birnie.....Springfield
Sec., Joseph H. Valentine..Stafford Springs
Treas. & Gen. Mgr.,
M. C. Birnie.....Springfield

Roaring Brook; gravity distribution from reservoirs, 4-67,100,000 gal.

Pipe, 7 mi. cement & c. i.; hyd. 52; serv. con. 386; meters, 12; ord. pres. 70 to 90 lb.

Rates; flat, $6 year, bath $3, closer $4; 30c. 1,000 gal. max., 6c. min.

STAMFORD, 25,138.

STAMFORD WATER COMPANY. Office, 271 Main St.

Pres., Albert J. Hatch.....Stamford
V. Pres., Walter Ferguson..... "
Sec., Walter D. Daskam..... "
Treas., John E. Keeler..... "
Gen. Mgr., Edward L. Hatch.. "
Cons. Engr.,
A. B. Hill, 100 Crown St....New Haven
Chemist, J. A. Newlands
State Board of Health, Middletown

Mill River; 5 mi. from center distribution impounding reservoirs, 3-992,000,000 gal.; liquid chlorine machine, Wallace & Tiernan.

Gravity distribution from reservoirs, 114 acres, 512,000,000 gal.

Pipe, 53¾ mi. 4 to 12-in. c. i.; 10 mi. 16 to 30-in.; hyd. 293 various; valves, r. h. opening Ludlow; meters, 2,560 various; av. daily cons. 3,300,000 gal.; serv. con. 4,000; ord. pres. 65 to 75 lb., fire pres. same.

Rates: flat, $5 year, bath $4, closet $4; meter, 20c. 1000 gal.

SPRINGDALE WATER CO. Supplies part of Stamford. See Springdale.

SHIPPAN WATER & REALTY COMPANY. Office, 194 Atlantic Street.

Pres., Robert A. Fosdick.....Stamford
Sec. & Treas., C. F. Waterbury... "

Mill River; gravity distribution from reservoirs, 4-1,003,500,000 gal.

Pipe, 5.75 mi. 4 & 6-in. c. i.; hyd. 278; serv. con. 3,782; meters, 2,266; ord. pres. 65 lb.

Rates; flat, min. charge $10 4,400 cu. ft., 20c. 100 cu. ft.

STONINGTON, 2,083.

MYSTIC VALLEY WATER CO. Supplies Groton.

Pres., D. Burrows Spalding....Stonington
Sec., George E. Grinnell.....Mystic
Treas. & Gen. Mgr.,
Lucius H. Fuller.....Putnam
Supt., George H. Robinson.....Stonington
Ch. Engr. P'g. Sta.,
A. G. Watrous..... "

Dean pond; at center of distribution; impounding reservoirs, 2-62,000,000 gal.; no purification.

Boilers, one 80-hp.; hand stoking; pumps, 2-1,750,000 gal. Deane; pumping direct and to reservoir, 2,000,000 gal.

Pipe, 24 mi. 4 to 12-in. c. i.; hyd. 122, hose con. 2½-in. Coffin; valves, l. h. thd. Coffin & Chapman; av. daily cons. 490,000 gal.; serv. con. 1237; ord. pres. 20 to 70 lb.

Rates: flat, $6 year, bath $4, closet $4; meter, 25c. 1000 gal. max., 16c. min.

STRATFORD, 5,712.

Supplied by Bridgeport Hydraulic Co. See Bridgeport.

SUFFIELD, 3,841.

NORTHERN CONNECTICUT LIGHT & POWER COMPANY. Office, Canal Bank, Windsor Locks. Leases plant from Housatonic Power Co., New Haven.

Pres., H. B. Freeman.....Hartford
Treas., Jas. A. Turnbull..... "
Gen. Mgr.,
Walter P. Schwabe.....Windsor Locks

Artesian wells, 4 4 & 6-in. 230 ft. deep; 2 mi. from center distribution; no purification.

Pumps, 2-2,880,000 gal.; one direct con. and one belted to elec. motors, one 7½-hp., one 15-hp. 3 ph. 60 cys. G. E.; pumping to standpipe, 300,000 gal.

Pipe, 13 mi. c. & w. i.; hyd. 31, hose con. 2½-in.; meters, 300 mostly National; av. daily cons. 42,000 gal.; serv. con. 300; ord. pres. 45 to 50 lb.

Rates: flat, $10 year; meter, 35c. 100 cu. ft.

THOMPSONVILLE WATER CO. See Thompsonville.

TERRYVILLE, 2,000.

TERRYVILLE WATER CO.

Pres., C. F. Hamlin.....Terryville
V. Pres., Clifford A. Hamlin..... "
Sec.-Treas. & Mgr., T. H. MacKenzie..... "
Asst. Sec. & Treas., Fanny L. MacKenzie..... "

Impounding reservoirs, 3-18,000,000 gal. & wells; no purification.

Pumps, 16 hor. rotary Lawrence 1911, d. con. to elec. motor; pipe, 8 mi. 2 to 8-in.; hyd. 18, hose con. 2½-in.

Rates; flat, $10 year, bath $3; closet $4; meter, 40c. 1,000 gal.

THOMASTON, 3,533.

THOMASTON WATER COMPANY.

Pres., T. D. Bradstreet.....Thomaston
Sec. & Treas., F. I. Roberts.... "

Reservoir in Plymouth, 1-90,000,000 gal.; gravity distribution.

Pipe, 5.75 mi. 4-in. iron; hyd. 50; serv. con. 269; meters, 29; pres. 90 to 130 lb.

Rates; flat, $6 year, bath $3, closet $3.

THOMPSONVILLE, 9,700.

THOMPSONVILLE WATER COMPANY.

Supplies East Windsor, Enfield, part of Suffield, and Warehouse Point.

Pres. & Mgr.,
Walter P. Schwabe.....Thompsonville
Sec., B. H. Thornton..... "
Treas., Marvin C. Birnie.....Springfield
Supt., H. R. Cooper.....Thompsonville

Springs; no purification.

Boilers, 2 hor. 110-hp. ea. Holyoke and Stewart; hand stoking; pumps, 2-3,500,000 gal. Deane; pumping to standpipe (1885) 40 ft. in diam. 40 ft. high, iron.

Pipe, 21 mi. 4 to 12-in. cement and iron; hyd. 121 Chapman; valves, 149 4-in. and over, Chapman and Ludlow; meters, 45 National mostly; av. daily cons. 800,000 gal.; serv. con 1414; ord. pres. 25 to 80 lb., fire pres. same.

Rates: meter, 30c. 1000 gal. max., special min.

TOLLAND, 1,126.

Supplied by Rockville Water & Aqueduct Co., See Rockville.

TORRINGTON, 15,483.

TORRINGTON WATER CO.

Pres., Isaac W. Brooks.....Torrington
Sec. & Treas., Chas. L. McNeil. "

Stream and lakes; impounding reservoir, 475,000,000 gal.; chemical, liquid chlorine.

Gravity distribution.

Pipe, 41 mi. c. i.; hyd. 150; meters, 200; serv. con. 2494.

Rates: flat, $6 year, bath $3, closet $3; meter, 30c. 1000 gal. max., 4c. min.

UNIONVILLE, 1,868.

THE UNIONVILLE WATER CO.

Pres., C. H. Graham.....Unionville
V. Pres., J. Cenney..... "
Treas. & Gen. Mgr., W. H. Hitchcock..... "
Supt., T. L. Rourke..... "

Impounding reservoirs, 2-3,000,000 gal.; 3.5 mi. from center business section.

Gravity distribution from reservoirs, 2; pipe, 7.4 mi. c. i. & cement; hyd. hose con. 2½-in. Ludlow.

Rates; flat, $6 year, bath $3, closet $3.

WALLINGFORD, 8,690.

MUNICIPAL.

Chmn. Comrs., P. J. Laclen....Wallingford
Sec., H. W. Davis..... "
Comr., E. H. Brown..... "
Supt., Wm. A. Mackenzie..... "

Lanes & Pistapang Ponds, 4½ mi. from center distribution; Lanes Pond 35,000,000 gal., Pistapang Pond 1,150,000,000 gal.; no purification.

Boiler, one hand stoking; pumps, 1,000,000 gal.; gravity distribution, pumping not used at present.

Pipe, 34 mi. 4 to 12-in. c. i.; hyd. 137, hose con. 2½-in. Chapman and Pratt & dy; valves, r. h. thd.; meters, 260 various; av. daily cons. 1,250,000 gal.; serv. con. 1550; ord. pres. 95 to 140 lb., fire pres same.

Rates: flat, $5 year, bath $3, closet $3; meter, min. charge $4.50 six mo., 20c. 1000 gal.

WAREHOUSE POINT, 1,076.

Supplied by Thompsonville Water Co. See Thompsonville.

WASHINGTON, 1,747.

JUDEA WATER COMPANY.

Pres., Powell G. Seeley.....Washington
Sec. & Treas., R. E. Carter.... "
Gen. Mgr., M. W. Aspinwall... "

Artesian wells & springs; gravity distribution & pumping to reservoirs, 2.

Pipe, 2 mi. 4-in. w. & galv. i.

Rates; flat, $15 year.

WATERBURY, 73,141.

MUNICIPAL.

Supt., Charles McDonald.....Waterbury
City Engr., R. A. Cairns..... "

Streams; 13 mi. from center distribution; impounding reservoirs, 5-2,946,000,000 gal.; gal.; no purification.

Pumps, 1-1,600,000 gal. Platt, 1-2,800,000 gal. Cameron; elec. motor, 150 kw. 2300 v. 3 ph. 60 cy.; pumping from gravity low service to high service.

Pipe, 75.5 mi. 4 to over 30-in. c. i.; hyd. 620, hose con. 2½-in. Holyoke; valves, 830 r. h. opening Ludlow; meter, 1540 various; av. daily cons. 7,500,000 gal.; ord. pres. 10 to 130 lb.

Rates: flat, $5 year, bath $2, closet $3; meter, min. charge $5 year, 2c. 100 gal. max., ½c. min.

WATERTOWN, 3,850.

WATERTOWN WATER CO. Office, Main St.

Pres., C. B. Mattoon.....Watertown
Sec., Pur. Agt. & Supt., E. W. Wheeler..... "
Treas., Buell Heminway..... "

Impounding reservoir of Thompson Brook 15,000,000 gal.; no purification.

Gravity distribution from reservoir, 500,000 gal.

Pipe, 13.5 mi. 4 to 10-in.; hyd. 60, hose con. 2½-in. Ludlow; valves, 52 l. h. thd. Ludlow; meters, 5 National; serv. con. 350; ord. pres. 42 to 128 lb., fire pres. same.

Rates; flat, $8 year, bath 43, closet $3; meter, 35c. 1,000 gal. max., 10c. min.

WEST HAVEN, 8,543.

WEST HAVEN WATER CO. Controlled by and receives main supply from New Haven Water Company. See New Haven.

Lake Phipps; impounding reservoir. Gravity distribution.

Pipe, 12½ mi. 4 to 12-in. iron & cement; hyd. 78; av. daily cons. 546,000 gal.; serv. con. 2,473; ord. pres. 45 lb.

Rates: flat, $5 year, bath $3, closet $3; meter, min. charge $2 quarter, 18c. 1000 gal. max., 7½c. min.

WEST HARTFORD, 4,808.
Supply from Hartford.

WESTBROOK, 951.
Supplied by the Guilford-Chester Water Co. See Clinton.

WESTPORT, 4,259.
WESTPORT WATER COMPANY.
Pres., Howard Elliott.....New Haven
V. Pres., L. S. Storrs..... " "
Sec., A. E. Clark..... " "
Treas., A. S. May..... " "
Auditor, I. A. May..... " "
Supt., Fred. B. Hubbell..... " "
Wells on bank of Saugatuck River, 1-30 ft. in diam., 1-20x40 ft. 12 ft. deep; 1 mile from center distribution; filtered through natural gravel and sand formation of river.
Boiler, one hor. tubular, 100-hp. Bigelow; pumps, 1-720,000 gal. Blake, 2-432,000 gal. ea. Goulds driven by elec. motors, 2 20-hp. ea. 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1892) 25 ft. in diam. 65 ft. high, steel.
Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 73, hor. con. 2½-in.; valves, 106 r. h. opening Ludlow; meters, 300 National and Thomson; av. daily cons. 150,000 gal.; serv. con. 500; ord. pres. 60 to 65 lb.; fire pres. 60 to 90 lb.
Rates: flat, dom. $10 year; meter, min. charge $12 year, 12c. 100 cu. ft.

WESTVILLE, *4,000.
Supplied by New Haven Water Company. See New Haven.

WETHERFIELD, 3,148.
WETHERFIELD WATER COMPANY.
Pres., S. F. Willard.....Wetherfield
Sec. & Treas. E. S. Goodrich... "
This company is not yet in active operation.

WILLIMANTIC, 11,230.
MUNICIPAL.
Chm. Comrs.,
Chas. M. Holbrook.....Willimantic
Comr., Raymond C. Comin.... "
" William L. Jenkins..... "
Supt., Henderson S. Moulton.. "
Ch. Engr. P'g. Sta.,
Geo. H. Allen..... "
River, 3 mi. from center distribution; intake pipe, 12 ft. 12-in. c. i.
Boilers, 2 hor. 100-hp. ea. Hodge; hand stoking; pumps, 3-2,500,000 gal.; 2 wtr. turbine driven R. D. W. and Worth.; one steam; pumping direct and to reservoir, 5,000,000 gal.
Pipe, 4 mi. 4 to 14-in. c. i.; hyd. 226, hose con. 2½-in.; valves, 153 r. h. thd. Chapman & Eddy; meters, 1263 various; av. daily cons. 750,000 gal.; serv. con 1527; ord. pres. 90 to 100 lb., fire pres. same.

WINDSOR, 4,178.
WINDSOR WATER CO. Office, Broad St.
Pres., Fred P. Holt.....Windsor
V. Pres., H. B. Freeman..... "
Treas., S. N. Dunning..... "
Gen. Mgr.,
Walter P. Schwabe.....Thompsonville
Brooks & impounding reservoir; 2.5 mi. from center distribution.
Pump, 1-442,000 gal. Douglas; driven by gasoline engine, 10-hp. National; pumping to reservoir, 107,000 gal.
Pipe, 3 mi. 8-in.; valves, 20 r. h. thd. Fairbanks; meters, 40 various; av. daily cons. 120,000 gal.; serv. con. 300; ord. pres. 25 to 55 lb., fire pres. 40 to 65 lb.
Rates; flat, $10 year, bath $5, closet $2.50; meter, $2.50 quarter, 33c. 1,000 gal. max., 28c. min.

WINDSOR LOCKS, 3,715.
WINDSOR LOCKS WATER COMPANY.
Pres., E. D. Coogan.....Windsor Locks
Sec., S. B. Douglas..... " "
Treas. & Gen. Mgr.,
G. M. Montgomery..... " "
Springs & brook; pumping to reservoirs, 2-330,000 gal.
Pipe, 10.5 mi. 4 & 6-in. c. & w. i.; hyd. 63; serv. con. 636; meters, 5; ord. pres. 70 lb.
Rates; flat, $7.50 year, bath $4, closet $4.

WINSTED, 7,754.
MUNICIPAL.
Supt., Geo. M. Crossman.....Winsted
Mad River and Crystal Lake; 1½ mi. from center distribution; no purification.
Gravity distribution from reservoir, 432,-000,000 gal.
Pipe, 22 mi. 4 to 12-in. c. i.; hyd. 247, hose con. 2½-in. Ludlow, R. D. W. and Pratt & Cady; valves, 310 r. h. thd. Ludlow; meters, 119 Pittsburgh, Neptune, Worth and Union; av. daily cons. 1,500,000 gal.; serv. con. 1202; ord. pres. 60 to 145 lb., fire pres. same.
Rates: flat, dom. $5 year, bath $1.00; closet $2; meter, 9c. 1000 gal. max., 4c. min.

WOODBURY, 1,860.
THE WOODBURY WATER CO. Office, North Woodbury.
Pres., Walter S. Curtiss.....Woodbury
V. Pres., Samuel C. Tomlinson... "
Sec. Treas. & Supt.,
Asahel W. Mitchell....North Woodbury
Ueservoir, 8,800,000 gal.; 10 mi. from center distribution.
Gravity distribution from reservoir, 600,-000 gal.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 23, hose con. 2½-in. Chapman; valves, 20 r. h. thd. Ludlow; serv. con. 151; av. ord. pres. 45 to 55 lb.

WOODMONT, 194.
Part of Milford. Supplied by The Milford Water Co. See Milford.

DELAWARE

DELAWARE CITY, 1,132.

DELAWARE CITY LIGHT & WATER PLANT. Office, 622 Court St., Reading, Pa.
Sec., Wm. H. Miller, Jr.....Reading, Pa.

DOVER, 3,720.

MUNICIPAL.
City Engr., A. L. Kirklune.....Dover

GEORGETOWN, 1,609.

GEORGETOWN WATERWORKS CO.
Supt., W. J. Thoroughgood....Georgetown
Wells, 15 2 & 3-ft. 112 to 116-ft. deep; near center distribution; no purification.
Pumps, 1-514,000 gal., 1-374,400 gal. Platt; belted to gasoline engines, one 24-hp. Otto & one 12-hp. F. M.; pumping to standpipe (1912) 10 ft. in diam. 100 ft. deep.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 42 2½-in. R. D. W.; valves, 30 l. h. thd. R. D. W.; meters, none; av. daily cons. 35,000 gal.; serv. con. 160; ord. pres. 34 to 47 lb., fire pres. same.
Rates; flat, $4 year; meter, 30c. 1,000 gal.

HARRINGTON, 1,500.

HARRINGTON WATER & LIGHT CO. Office, 622 Court St., Reading, Pa.
Sec., Wm. H. Miller, Jr.....Reading, Pa.

LAUREL, 2,166.

MUNICIPAL.
City Engr., Z. Cordrey.....Laurel

LEWES, 2,158.

MUNICIPAL ELECTRIC LIGHT & WATER CO.
Pres., James T. Thompson.....Lewes
Sec.-Treas., A. R. Nichols..... "
Supt., Charles Lynch..... "
River & wells, 26 2-in. 65-ft. deep; suction line 200-ft. 8-in.
Boilers, 2 water-tube 160-hp. Keeler; hand stoking; pumps, 2-720,000 gal. Worth.; steam engine, 120-hp. Watertown; elec. motors, 2 90 kw. 2,200 v. s. ph. 60 cys. Westg.; pumping direct & to standpipe (1901) 12 ft. in diam. 115 ft. high.
Pipe, 468.10 mi. 4 to 12-in. c. i.; hyd. 62, hose con. 2½-in. Rensselaer; valves, 24 l. h. thd. Crane; meters, 12 Pittsburgh & Worth.; av. daily cons. 400,000 gal.; serv. con. 300; ord. pres. 45 to 50 lb.
Rates; meter, 40c. 1,000 gal. max., 35c. min.

MIDDLETOWN, 1,399.

MUNICIPAL LIGHT & WATER PLANT.
Pres., Geo. V. Peverley.....Middletown
Sec., Dr. Dorsey N. Lewis..... "
Treas., Henry L. Davis..... "
Mgr., D. W. Stevens..... "
Supt., Theo. Whitlock..... "
Boiler, 200-hp. Erie; steam engine, 210-hp. Ames.

MILFORD, 2,603.

MUNICIPAL LIGHT & WATER PLANT.
Pres., W. A. Humes.....Milford
Sec., J. F. Anderson..... "
Treas., C. Barker..... "
Supt., W. T. Banning..... "
Engr. P'g Sta., J. R. Tucker..... "
Boiler, 700-hp. Coatesville; steam engine, 400-hp. Ames.

NEW CASTLE, 3,351.

DELAWARE WATER IMPROVEMENT CO. Office, 622 Court St., Reading, Pa.
Sec., Wm. H. Miller, Jr.....Reading
Mgr., G. I. Unger.....New Castle

NEWARK, 1,913.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Comr., E. C. Wilson.....Newark
Boiler, 200-hp. Coatesville; steam engine, 150-hp. Russell; gasoline engine, 200-hp. National.

WILMINGTON, 87,411.

MUNICIPAL.
Supt. & Ch. Engr.,
Edgar M. Hoopes, Jr.....Wilmington
Gen. Foreman, Charles Martin. "
Registrar, Mahlon Betts..... "
Asst. Registrar, Frank H. Day. "
Asst. Engr., S. N. Van Trump.. "
Brandywine Creek; one mi. from center distribution; settling & coagulating basins, 35,000,000 gal.; slow sand filters, 15,000,000 gal.; chemicals, liquid chlorine & sulphate of alumina.
Boilers, 4 water-tube 300-hp. Edge Moor; hand stoking; pumps, 2-12,000,000 gal. Holly; pumping to reservoirs; 2-100,000,000 gal. & standpipe (1900) steel & stone.
Pipe, 131.98 mi. 4 to over 30-in. c. i. & steel; hyd. 938, hose con. 2½-in. R. D. W.; valves; av. daily cons. 11,486,100 gal.; serv. con. 20,487; ord. pres. 20 to 95 lb., fire pres. same.
Rates; flat, $5 year, meter, 10c. 1,000 gal. max., 42¾c. min.

DISTRICT OF COLUMBIA

WASHINGTON, *358,000.

The United States owns the supply and purification works. The District of Columbia owns the distribution system.

Engr., J. S. Garland.....Washington
Asst. Engr., F. W. Albert..... "
Water Registrar,
G. W. Wallace..... "
Supt., W. A. McFarland..... "
Master Mechanic, J. T. Fink.. "

In charge of supply and purification., Major C. W. Kutz, Corps of Engineers, U. S. A. Office, Southern Bldg., Washington.

Potomac River; 16 mi. from center distribution; sedimentation reservoir, 3-997,000,000 gal.; slow sand filters, 29, one acre ea.; clear water reservoir, 15,000,000 gal.

Boilers, 6 hor. water-tube, 200-hp. ea. Aultman & Tyler; mechanical stokers, chain grate; pumps, 3 centrifugal, 40,000,000 gal. ea. Worth. d. con. to Harrisburg engines, one vertical tri. exp. 2,500,000 gal. Holly, one hor. tri. exp. 5,000 gal. Nordberg, one vertical tri. exp. 12,000,000 gal. Barr with Allis-C. water end, 2 vertical tri. exp. 20,000,000 gal. ea. Allis-C., one vertical tri. exp. 30,000,000. gal. Allis-C., 2 triplex 1,015,000 gal. ea. Goulds, 2 triplex 230,400 and 449,280 gal. Goulds driven by gas engines, three 6, 10 & 20-hp. ea. Springfield, 2 triplex 864,000 gal. ea. Platt, 2 triplex 1,728,000 gal. ea. Platt driven by oil engines, 2, 50-hp. ea. Foos; pumping direct and to reservoir, 2-34,500,000 gal.; towers, 2, 83,500 gal. ea., 3-140,000 gal. ea. steel.

Pipe, 573 mi. 4 to over 30-in.; hyd. 3289; hose con. 2½ & 4-in. various; valves, 9302 mostly r. h. opening, various; meters, 42,686 various; av. daily cons. 67,024; serv. con. 117; ord. pres. 22 to 117 lb., fire pres. same.

Rates: flat, $5 year, meter, min. charge $4.50 7500 cu. ft., 4c. 100 cu. ft.

FLORIDA

APALACHICOLA, 3,065.
MUNICIPAL.
Mayor, S. E. Teague.....Apalachicola

BARTOW, 2,662.
MUNICIPAL.
Supt., D. E. Bivens.....Bartow
Engr. P'g. Sta., H. L. Marlow..... "
Engr. P'g. Sta., A. Oglesby..... "
Well, 6-in. 726 ft. deep; at center distribution; no purification.
Boilers, 2 hor. tubular and one water-tube 550-hp. Lombard, Erie and Casey-Hedges; hand stoking; pump, 4-3,820,000 gal. Worth. Dean, McGowan and Morris; elec. motor, 3p kw. 220 v. 3 ph. 60 cys. G. E.; pumping elevated tank (1905) 75 ft. high 50,000 gal. steel.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. R. D. W., Columbian & Bourbon; valves, 30 r. h. thd. R. D. W. and Columbian; meters, 325 Buffalo, National and Worth.; av. daily cons. 200,000 gal.; serv. con. 575; ord. pres. 33 to 38 lb., fire pres. 60 to 100 lb.
Rates: flat, 50c. mo.; meter, 25c. 1000 gal. max., 10c. min.

BRADENTOWN, 1,886.
MUNICIPAL.
Supt., R. Wrobble.....Bradentown

CHIPLEY, 1,099.
THE CHIPLEY LIGHT & POWER CO.
Pres., A. A. Myers.....Chipley
V. Pres., C. B. Dunn..... "
Gen. Mgr., E. H. Hale..... "
Well, 6-in. 200 ft. deep.
Boilers, 2 fire-tube 60-hp. ea. Southern; hand stoking; pumps, 2 Canton-Hughes; pumping direct and to standpipe (1909) 85 ft. high 120,000 gal. iron.
Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 20; av. daily cons. 60,000 gal.; serv. con. 200; ord. pres. 45 to 85 lb., fire pres. same.

CLEARWATER, 1,171.
MUNICIPAL.
Supt., A. J. Brandon.....Clearwater
Artesian wells, 2, 8-in. 212 & 232 ft. deep; ½ mi. from center distribution.
Pumps, 2-432,000 gal. ea. Rumsey d. con. to oil engines, 2, 25-hp. ea. Foos;
Pumps, 2-432,000 gal. ea. Rumsey d. con. to oil engines, 225-hp. ea. Foos; pumping to tank, 90 ft. high 80,000 gal. steel.
Pipe, 5½ mi. 4 to 12-in. c. i.; hyd. 41, hose con. 2½-in. R. D. W.; valves, 28 r. h. thd. R. D. W.; meters, 225 Neptune and Pittsburgh; av. daily cons. 125,000 gal.; serv. con. 425; ord. pres. 45 to 55 lb., fire pres. 100 lb.
Rates: flat, $12 year; meter, min. charge $1 mo., $1.75 1000 cu. ft. max., $1.00 min.

CRESCENT CITY, 677.
CRESCENT CITY ICE FACTORY & WATER WORKS.
Supt. & Owner, C. H. Cash...Crescent City
Ch. Engr. P'g. Sta.,
Phillips H. Cash..... " "
Artesian wells, 300 ft. deep; 1¾ mi. from center distribution.
Boilers, 2 return tubular 50-hp. Casey-Hedges; hand stoking; pumps, one Gould, one duplex Knowles; pumping direct and to elevated tank, 80 ft. high, 8000 gal., wood.
Pipe, 1½ mi. 4 to 12-in. w. i.; hyd. 7, hose con. 2½-in.; valves, 3; av. daily cons. 16,000 gal.; ser. con. 40; ord. pres. 35 to 50 lb., fire pres. same.

DAYTONA, 3,082.
MUNICIPAL Board of Public Works:
Pres., Joseph Osborne.....Daytona
Sec., E. M. Condit..... "
Mbr., D. D. Rogers..... "
" Richard Stevens..... "
" John Milligan..... "
Supt., George A. Main..... "
Cons. Engr., C. M. Rogers..... "
Artesian wells, 4, 6-in. 170 to 240 ft. deep; aeration to remove hydrogen sulphide gas; water softening tanks, 3-180,000 gal.; chemicals, hydrated lime and soda ash; compressed air agitation.
Pumps, 2-2,160,000 gal. Rumsey, d. con. to gasolene engines, 2 50-hp. Foos; pumping to elevated tank, 135 ft. high, 750,000 gal., steel.
Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 68, hose con. 2½-in. R. D. W.; valves, 78 l. h. thd. Crane; meters, 534 mostly Pittsburgh and Worthington; av. daily cons. summer 130,000 gal., winter 200,000 gal.; serv. con. 534; ord. pres. 44 to 58 lb., fire pres. 85 to 90 lb.
Rates: meter, 10c. 1000 gal. plus $1.25 quarter.

DE FUNIAK SPRINGS, 2,017.
MUNICIPAL.
Supt., Malcolm Bruce...De Funiak Springs

DE LAND, 2,812.
MUNICIPAL.
Mayor, John MacDiarmid.....De Land
Chmn. Comrs., V. Howry Voorhis. " "
Supt., George Hill..... " "
Supply at center distribution.
Boilers, 2 hor. tubular one 35-hp. Casey-Hedges & one 50-hp. Ames; hand stoking; pumps, 1-1,440,000 gal., 1,720,000 gal. Gardner; pumping direct & to standpipe 400 ft. in diam. 100 ft. deep.
Pipe, 4¼ mi. 4 to 10-in. c. i.; hyd. 46, hose con. 2½-in. R. D. W.; valves, 36 r. h. thd.; meters, 822 Keystone, Worth., Thomson & Buffalo; av. daily cons. 175,000 gal.; serv. con. 860; ord. pres. 40 to 43 lb., fire pres. 80 to 120 lb.

EUSTIS, 910.
EUSTIS WATER, LIGHT & POWER CO.

Pres. & Gen. Mgr., C. A. Childs....Eustis
V. Pres., T. G. McMullen..... "
Treas., H. C. Lane..... "
Sec., F. A. Mcullen..... "
Ch. Engr. P'g. Sta., John F. Shore... "

Artesian well; in center of distribution.

Boilers, 2 return tubular 75 & 100-hp. Tudor & Brownell; hand stoking; pumps, 2-500,000 gal. ea. Platt; elec. motor, one, 15-hp 220 v. 3 ph. 60 cys. Allis-C.; pumping to elevated tank, 100 ft. high, 50,000 gal., steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½-in. Columbian; valves, 17 r. h. thd.; meters, 130 Hersey and Neptune; av. daily cons. summer 150,000 gal., winter, 400,000 gal.; ord. pres. 72 lb., fire pres. same.

Rates: flat, $1.00 to $1.50 mo.; meter, min. charge $1.50 mo. 600 cu. ft.

FERNANDINA, 3,482.

MUNICIPAL.

Chmn. Comn., F. C. Hernandez. Fernandina
Comr., E. R. Williams..... "
" H. L. Turner..... "
Clerk, W. S. Whitney..... "
Engr. P'g Sta., L. Austin..... "
Supt., R. V. Nolan..... "

Artesian wells, 2 6 & 8-in. 731 & 1,101-ft. deep; ¼ mi. from center business section; no purification.

Boilers, 4 return tubular 100-hp. 100 lb.; pumps, 2-2,000,000 gal. hor. comp. d. act. L-D-G.; pumping direct & to reservoir, 275,000 gal. & elev. tank 113,000 gal.

Pipe, 67 mi., hose con. 2½-in. R. D. W.; valves, 24 l. h. thd. R. D. W.; meters, 75 various; av. daily cons. 300,000 gal.; ord. pres. 43 lb., fire pres. 80 to 150 lb.

Rates; meter, 10c. 1,000 gal.

FORT BARRANCAS,

Owned by U. S. Government. Operated by Quartermaster Dept., U. S. Army.

Acting Quartermaster, S. S. Winslow.....Fort Barrancas
Engr. P'g Sta., J. Carroll.... ..Warrington

Artesian wells, 2 8-in. 234 to 251 ft. deep; at center business section; no purification.

Boilers, 2 return tubular 60-hp. ea. Keeler 1902; hand stoking; pumps, 2-720,000 gal. hor. simple & comp. d. act. Worth 1902; air compressors, 2 Sweigard & Gardner (1906, 1902) pumping to elev tanks, 2-60,000 gal. steel, Virginia Bridge & Iron Co.

Pipe, 5¾ mi. 4-in. c. i.; hyd. 27, con. 2½-in. Chapman; valves, 21 l. h. opening Crane; meters, one Hersey; av. daily cons. 1,374; serv. con. 73; ord. pres. 35 to 37 lb., fire pres. 37 to 75 lb.

FORT DICKENS,

Owned by the U. S. Government and operated by Quartermaster Dept., U. S. Army.

Acting Quartermaster,
S. S. Winslow.....Fort Barrancas
Engrs. P'g. Sta., J. Carroll.....Warrington
J. Simmons.... "

Wells, 9 2-in. 13-ft. deep; near center distribution; no purification.

Boiler, tubular 40-hp. Beggs; hand stoking; pump, 207,360 gal. Worth.; pumping direct & to elev. tank, 30,000 gal. steel.

Pipe, ¾ mi. 4 to 12-in.; hyd. 9, hose con. 2½-in. Chapman; valves, 9 l. h. thd. Chapman; meters, 2 Worth. & Torrey; av. daily cons. 100 gal.; serv. con. 15; ord. pres. 32 to 25 lb., fire pres. 40 to 45 lb.

FORT McRAE,

Owned by the U. S. Government and operated by Quartermaster Dept., U. S. Army, Fort Barrancas, Fla.

Acting Quartermaster
S. S. Winslow.....Fort Barrancas
Engrs. P'g Sta., J. Varroll.....Warrington
J. Simmons. .. "

Well, 3-in. 160-ft. deep; suction line 25-ft. 10-ft. high; near center distribution; no purification.

Pump, 48,000 gal. Rider-Ericson, d. con. to gas engine; pumping direct & to elev. tank, 60,000 gal. iron.

Gravity distribution; valves, 15 r. h. thd. Jenkins.

FORT MEADE, 1,165.

MUNICIPAL.

Supt., Capt. B. R. King.....Fort Meade

FORT MYERS,

MUNICIPAL.

Chmn. Comrs., W. H. Tawls....Ft. Myers
Comr., W. S. Hansan..... " "
" W. C. Bigelow ..... " "
Clerk, J. W. Owins..... " "
Supt. & Engr. P'g Sta.,
S. M. Smith..... " "

Artesian well, 8-in. 750 ft. deep; ½ mi. from center business section.

Pump, 1-172,800 gal. hor. triplex Deming 1911 belted to elec. motor, 30-hp. 23,000 v. 3 ph. 1,100 cys. Richard 1913; purchase energy from Southern Utility Co.; pumping to elev. tank (1911) 50,000 gal. steel, American Light & Water Co.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 29, hose con. 2½-in. Columbian; valves, 16 r. h. opening; meters, 120 Worth.; av. daily cons. 108,000 gal.; serv. con. 223; ord. pres. 60 to 100 lb., fire pres. same.

Rates; meter, $2.25 quarter gal., 25c. 1,000 gal. max., 15c. min.

FORT PICKENS,

Owned by the U. S. Government and operated by Quartermaster Dept., U. S. Army.

Acting Quartermaster,
S. S. Winslow.....Fort Barrancas
Engrs. P'g Sta., J. Carroll.....Warrington
J. Simmons... "

Wells, 9 2-in. 13-ft. deep; near center distribution; no purification.

Boiler, tubular 40-hp. Beggs; hand stoking; pump, 207,360 gal. Worth.; pumping direct & to elev. tank, 30,000 gal. steel.

Pipe, ¾ mi. 4 to 12-in.; hyd. 9, hose con. 2½-in. Champman; valves, 9 l. h. thd. Champman; meters, 2 Worth. & Torrey; av. daily cons. 100 gal.; serv. con. 15; ord. pres. 22 to 25 lb., fire pres. 40 to 45 lb.

FORT PIERCE,

MUNICIPAL.

Chmn. Bd. of Public Wks.,
A. D. Penney.....Fort Pierce
Sec.-Treas., C. M. Horton..... " "
Supt. & Engr. P'g Sta.,
W. C. Russell..... " "

Wells, 5 4-in. 80-ft. deep; near center business section; settling basin, 100,000 gal.

Boilers, 2 tubular 150-hp. ea. 125 lb. W. & W. 1912; hand stoking; pumps, 1-1,000,000 gal. simple Worth. 1912; 1-500,000 gal. comp. Worth. 1912; d. con. to steam engines, 2 80 & 160-hp. Ball 1912; elec. generators, 2 37 & 75 kva. Ft. Wayne; pumping to elev. tank (1912) 75,000 gal. steel.

Hyd. 50, hose con. 2'-in. R. D. W.; valves, 25 l. h. opening; meters, 110 Neptune; av. daily cons. 115,000 gal. 95%; serv. con. 320; ord. pres. 65 to 67 lb., fire pres. 67 to 90 lb.

Rates; flat, $10 year; meter, $2.50 quarter 10,000 gal., 10c. 1,000 gal.

GAINESVILLE, 6,183.

MUNICIPAL.

Chmn. Bd. of Public Works,
H. Taylor.....Gainesville
Comr., M. H. De Pass..... "
" W. S. McDowell..... "
" T. B. Stringfellow..... "
" H. M. Chitty..... "
Sec. of Bd., I. E. Webster "
Supt., T. M. Early..... "

Impounding reservoir & well, 12-in. 360-ft. deep; ½ mi. from center business section; no purification.

Boilers, 2 water-tube 220-hp. 160 lb. Erie 1913; hand stoking; pumps, 1-1,500,000 gal. hor. tri. exp. d. act. McGowan 1913, 1-1,500,000 gal. hor. simple d. act. Platt, 1-442,000 gal. hor. centrifugal Platt 1913 d. con. to elec. motor, 15-hp. 220 v. 3 ph. 60 cys. Ft. Wayne 1913; air compressors, Ingersoll-Rand 1913; pumping direct & to elev. tank, 250,000 gal. steel.

Pipe, 12 mi. 4 to 14-in. c. i.; hyd. 115, hose con. 4-in.; meters, 700 Pittsburgh, National & Thomson; av. daily cons. 700,000 gal. 70%; serv. con. 900; ord. pres. 50 to 60 lb., fire pres. 90 to 120 lb.

Rates; meter, $3 quarter 24,000 gal., 12½c. 1,000 gal. max., 10c. min.

GRACEVILLE, *15,000.

MUNICIPAL.

Supt., Henry McIlvain.....Graceville

Artesian wells, 2 8-in. 264-ft. deep; one mi. from center distribution; no purification.

Boilers, 6 100-hp. R. D. Cole; hand stoking; pumps, 432,000 gal. Platt d. con. to steam engine 20-hp. Harrisburgh; pumping to elev. tank, 65,000 gal. steel.

Pipe, one mi. 4 to 12-in. c. i.; hyd. 6, hose con. 3-in. R. D. Cole; meters, none; av. daily cons. 30,000 gal.; serv. con. 300; ord. pres. 45 lb., fire pres. 125 lb.

JACKSONVILLE, 90,187.

MUNICIPAL.

Supt., L. E. Murphy.....Jacksonville
Engr. P'g Sta., L. D. St. Johns.. "

Impounding reservoir & artesian wells, 13 6 to 12-in. 985 to 1,025-ft. deep; wells at various distances from center distribution; purification by aeration.

Boilers, 3 850-hp. Aultman & Taylor & B. & W.; hand stoking; pumps, 4-19,000,000 gal. d. act. Prescott & Worth.; pumping direct & to elev. tank, 250,000 gal. steel.

Pipe, 71.3 mi. 4 to 20-in. c. i.; hyd. 720, hose con. 2½ to 4-in. Columbian, Ludlow & R. D. W.; valves, 557 r. h. thd. Rensselaer & Columbian; meters, 9,500 various; av. daily cons. 6,550,000 gal.; ord. pres. 50 lb., fire pres. 100 to 110 lb.

JASPER, 1,730.

JASPER WATER & LIGHT CO.

Owner, L. L. Forlaw.....Ft. Pierce
Supt., J. C. Hagren..... " "

Boiler, 160-hp. Nagle; steam engine, 100-hp. Watertown.

KEY WEST, 19,945.

MUNICIPAL.

Supt., H. C. Wetmore.....Key West
Ch. Engr. P'g. Sta.,
T. E. Billberry..... " "

Well, 1, 12-in. 2300 ft. deep; 8 mi. from center distribution.

Boilers, 2 Scotch 125-hp. Casey-Hedges; hand stoking; pumps, 2 compound 1,440,000 gal. ea. Snow; pumping to standpipe (1890) 20 ft. in diam. 65 ft. high, iron.

Pipe, 8½ mi. 4 to 12-in. c. i.; hyd. 105, hose con. 2½-in. Kennedy; valves, 78 l. h. thd. R. D. W.; av. daily cons. 75,000 gal.; ord. pres. 30 lb., fire pres. 60 lb.

Rates: flat, $5 year.

LAKE CITY, 5,032.

MUNICIPAL.

Chm., Comrs., S. P. Buie.....Lake City
Sec., J. W. Layne..... " "
Supt., C. J. Ryan..... " "
Ch. Engr. P'g. Sta., A. Pope..... " "

Artesian well, 300 ft. deep.

Boilers, 3, 555-hp., one water-tube Casey-Hedges, 2 hor. return tubular Lombard; hand stoking; pumps, 2-2,160,000 gal. Platt and Worth.; elec. motors, 50-hp. 1100 v. 3 ph. 60 cys. G. E.; pumping direct and to standpipe (1910) 18 ft. in diam. 80 ft. high, 55,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hy.d 70, hose con. 2½-in. R. D. W., Columbian and Ludlow; valves, 34 l. h. thd. R. D. W., Columbian and Ludlow; meters, 150 Neptune; av. daily cons. 200,000 gal.; serv. con. 325; ord. pres. 25 to 40 lb., fire pres 50 to 100 lb.

Rates: flat, $1.00 mo., meter, min. charge $1.00 mo. 3000 gal.

LAKE HELEN, 646.

MUNICIPAL.

Comr., Harry Roberts.....Lake Helen
" J. P. Mace..... " "
Treas., W. J. Todd..... " "
Supt., Chas. H. Smith..... " "
Des. Engr., John Day..... " "
Ch. Engr. P'g Sta., A. Ponder. " "

Artesian well, 4-in. 190 ft. deep; one mi. from center distribution.

Steam from Bond Lumber Co.; pump, one deep well; pumping to tank, 50 ft. high, 15,000 gal.

Pipe, 3-in.; av. daily cons. 3800 gal.; serv con. 45.; ord. pres. 45 lb., fire pres. same.

LAKE WORTH, *1,200.

LAKE WORTH LIGHT, WATER & ICE CO.

Pres., Percy Hagerman.....Lake Worth
V. Pres., Wm. A. Otis..... " "
Sec. & Treas., C. E. Titus..... " "
Gen. Mgr., O. Randolph..... " "
Supt., W. Gandolph..... " "

Well, 6-in. 72 ft. deep.

Pump, 1 triplex 648,000 gal. Deming d. con. to oil engine, 60-hp. De La Vergne; pumping to elevated tank, 85 ft. high, 100,000 gal. steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 5, hose con. 2-in. Ludlow; valves, 15 r. h. thd Ludlow; meters, 45 Ludlow; serv. con. 45; ord. pres. 30 to 37 lb., fire pres. 50 to 100 lb

Rates: meter, 18c. 1000 gal.

LAKELAND, 3,719.

MUNICIPAL.

Mayor, O. M. Eaton.....Lakeland
Comr. ,E. C. Flanagan..... "
Supt., R. L. Raffo..... "

Artesian wells 2 8 & 10-in. 480 to 700-ft. deep; near center distribution; no purification.

Boilers, 2 return tubular 150-hp. ea. Lombard; hand stoking; pumps, 1-1,080,000 gal. F. M., 1-1,440,000 gal. McGowan; pumping to elev. tank, 70,000 gal. steel.

Gravity distribution from reservoir, 76,000 gal.; pipe, 7 mi. 4 to 12-in.; hyd. 78, hose con. 2½:in. R. D. W.; valves, 42 r. h. the. mostly Crane; meters, 320 Pittsburgh & Worth.; av. daily cons. 680,000 gal.; serv. con. 400; ord. pres. 43 to 55 lb., fire pres. 80 to 125 lb.

Rates; flat $1; meter, 75c. 3,000 gal.

LIVE OAK, 3,450.

MUNICIPAL UTILITIES COMMISSION.

Chmn., G. H. Davis.....Live Oak
Mbr., J. W. Bryson..... " "
" W. H. Lowery..... " "
Clerk, A. H. Lewin..... " "
Des. Engr., L. T. Morgan..... " "
Engr. P'g Sta., Chas. L. James... " "
Supt., Fred. J. Gaylard..... " "

Wells, 2 8-in. 275 & 315-ft. deep; at center distribution; no purification.

Boilers, 2 hor. return tubular 60-hp. Schofield; hand stoking; pumps, 1-1,250,000 gal. McGowan, 1-1,000,000 gal. Platt; elec. motors, 2½-kw. 110 v. d. c. 35 a. c.; pumping to elev. tank, 40,000 gal. steel.

Gravity distribution from reservoir; pipe, 23 mi. 4 to 30-in. c. i. & w. i.; hyd. 30, hose con. 2½-in. Glamorgan & Crane; valves, 15 r. h. thd. Crane; 110 Neptune & Pittsburgh; av. daily cons. 800,000 gal.; serv. con 500; ord. pres. 35 to 40 lb., fire pres. 80 to 110 lb.

Rates; flat, $10 year min., $25 max.; meter, 30c. 1,000 gal.

MADISON, 1,560.

MUNICIPAL.

Supt., J. D. Redfroe.....Madison

MARIANNA, 1,915.

MUNICIPAL.

Chmn. Comrs., J. L. Carroll.....Marianna
Comr., F. M. Golson..... "
Town Clerk, B. L. Bird..... "
Supt., Weldon Henley..... "
Engr. P'g Sta., T. J. Davis..... "

Well, 6-in. 365 ft. deep; near center business section.

Boilers, 2 hor. return tubular 100-hp. 100 lb. W. & W. & Cole 1906; hand stoking; pumps, 1-300,000 gal. hor. simple d. act. Worth. 1900, driven by steam engines, one 75-hp. Hooven-Owen-Rentschler 1906, one 100-hp. Ball 1912; pumping to reservoir & elev. tank (1900) 25,000 gal. steel, W. & W.

Pipe, 4.5 mi. 4 & 6-in. c. i.; hyd. 34, hose con. 2½-in. Kupferle; valves, 4 l. h. opening; meters, 112 Hersey & Neptune; av. daily cons. 50,000 gal. 70%; serv. con. 410; ord. pres. 20 lb., fire pres. 40 to 60 lb.

Rates; flat, $2 quarter, bath $1.25, closet $1.25; meter, $2.50 quarter 10,000 gal., 25c. 1,000 gal. max., 12c. min.

MIAMA, 5,471.

MIAMA WATER COMPANY. Office, 26 Broadway, New York, N. Y.

Pres., W. R. Keenan, Jr....New York, N.Y.
V. Pres. & Supt.,
John N. MacGonigle.....Miama
Sec., J. C. Salter.....New York, N. Y.
Treas., L. C. Haines..... " " " "
Des. Engr., Max Brombacher..Palm Beach
Engr. P'g Sta., A. J. Fisher.....Miama

Wells, 11 6 to 8-in. 45 to 70 ft. deep; 1½ mi. from center business section.

Boilers, 2 water-tube 520-hp. 200 lb. B. & W. 1913, 4 hor. tubular 150-hp. 150 lb. Oil City 1907, 1910 & 1912; hand stoking; pumps, 1-2,000,000 gal. hor. comp. d. act. Platt, 1-3,000,000 gal. hor. comp. c. & f. wh. L-D-G; pumping direct, to reservoir, 14,000 gal. & standpipe (1903) 282,000 gal.

Pipe, 35 mi. 1¼ to 27-in.; hyd. 143; meters, 2,062 Neptune & Hersey; av. daily cons. 1,400,000 gal.; serv. con. 2,062; ord. pres. 30 to 52 lb., fire pres. 75 lb.

Rates; meter, $3 quarter 2730 cu. ft.

MILTON, 831.

MUNICIPAL.

Chm. Comrs., S. J. Harvey.....Milton

Comr., L. P. Golson.....Milton
" John T. Stewart..... "
Cons. Engrs.,
Solomon-Norcross Co.....Ottawa, Ga.
Supt. & City Engr., Henry Mentz..Milton
Engr. P'g. Sta., Richard C. Lane... "

Wells, 2, 4-in. 101 ft. deep; 1000 ft. from center distribution; no purification.

Boilers, 2 hor. return tubular 150-hp. ea. Casey-Hedges; pumps, 2 compound duplex 1,000,000 gal. ea. McGowan; pumping direct for fires and to elevated tanks, 140 ft. high, 100,000 gal.

Pipe, 35 mi. 4 to 12-in. c. i.; hyd. 42, hose con. 2½-in. R. D. W.; valves, 12 r. h. thd. Columbian; meters, 34 Hersey; av. daily cons. 35,000 gal.; ord. pres. 60 to 72 lb., fire pres. 60 to 150 lb.

Rates: meter, min. charge $1.00 mo.

OCALA, 6,000.

MUNICIPAL.

Supt., J. A. Campbell.....Ocala

Wells, 2 8-in. 350 & 1,220 ft. deep; near center business section.

Boilers, 2 return tubular & Scotch marine 125-hp. ea. 115 lb. Schofield 1906 & 1914; hand stoking; pumps, 1-750,000 gal. Worth. 1888, 1-1,000,000 gal. Platt; air compressor, two 248 cu. ft. Knowles 1890 & 1898; pumping to elev. tank (1888) 112,000 gal. iron, Schofield.

Pipe, 9 mi. 4 to 10-in. c. i.; hyd. 108, hose con. 2½-in. R. D. W.; valves, l. h. opening R. D. W.; meters, 750 Hersey, Neptune, Thomson; av. daily cons. 400,000 gal.; serv. con. 846; ord. pres. 44 to 46 lb., fire pres 100 lb

Rates, meter, $12 year 12,000 gal.; 10c. 100 cu. ft. max.

ORANGE CITY,

ORANGE CITY WATERWORKS CO.

Pres., Fred W. Rogers,
1315 Wells Bldg.....Milwaukee, Wis.
Gen. Mgr. & Cons. Engr.,
Paul B. Rogers.....Orange City
Supt., J. Myers..... " "

Well, 12-in. 150 ft. deep; near center distribution; no purification.

Boilers, one 90-hp. 100 lb. F. M. 1890, one vert. 40-hp. 90 lb. F. M. 1890; hand stoking; pumps, 1-2,880,000 gal. hor. comp. d. act. steam Platt 1890, 2-173,000 gal. hor. duplex belted to gasoline engine, 20-hp. La Zier 1908; pumping to elev. tank (1890) 65,000 gal. wood.

Pipe, 6 mi. 6 to 8-in. c. i.; hyd. 20, hose con. 3-in.; meters, 120 Worth., Thomson & Pittsburgh; av. daily cons. 60,000 gal.; serv. con. 150; ord. pres. 45 lb., fire pres. 60 lb.

Rates; meter, $3 quarter 10,000 gal., 20c. 1,000 gal.

PALATKA,

PALATKA WATER WORKS. (Privately owned).

Pres., Harvey Wheeler.....Concord, Mass.
Sec. & Treas., Elbert Wheeler,
14 Beacon St.....Boston, Mass.
Cons. Engr., Wm. Wheeler....Boston, Mass.
Supt., J. D. Points.....Palatka

Springs & streams.

PENSACOLA, 22,982.

MUNICIPAL.

Comr., Thos. H. Johnson.....Pensacola
Supt., L. J. Sweeney..... "

Artesian wells; 1 mi. from center distribution.

Boilers, 2 water-tube 150-hp. ea. Sterling hand stoking; pumps, 2-3,000,000 gal. Snow & Platt; air compressor, 1500 cu. ft. Nordberg; pumping to standpipe (1886) 20 ft. diam. 130 ft. high, steel.

Pipe, 37 mi. 4 to 12-in. c. i.; hyd. 303, hose con. 2½-in.; valves, 186 r. h. thd.; meters, 3000; av. daily cons. 1,400,000 gal.; serv. con. 3600; ord. pres. 65 lb., fire pres. 100 lb.

Rates: flat, $6 year; meter, 25c. 1000 gal. max., 10c. min.

PLANT CITY, 2,481.

MUNICIPAL.

Comr., A. H. Barker.....Plant City
" S. E. Mays..... " "
" E. W. Wiggins..... " "
Supt., E. W. Mays..... " "

Well, 10-in. 420 ft. deep; at center of distribution.

Boilers, one tubular 50-hp. Atlas; hand stoking; pumps, 1-680,000 gal. McGowan; air compressor, 12x16; pumping to elevated tank, 120 ft. high 54,000 gal., iron.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Pratt & Cady; valves, 28 r. & l. h. thd.; meters, 250 Worth.; av. daily cons. 110,000 gal.; serv. con 350; ord. pres. 40 to 45 lb., fire pres. 100 lb.

PORT TAMPA CITY, 1,343.

MUNICIPAL.

City Clerk, R. E. Davis.....Port Tampa

PUNTA GORDA, 1,012.

MUNICIPAL ELECTRIC LIGHT & WATER DEPT.

Comr., Clay Chadwick.....Punta Gorda
" W. S. Whiteaker..... " "
" C. L. Frier..... " "
" S. F. J. Trabue..... " "
" Adam Silcox..... " "
City Clerk, P. O. Gautier..... " "

Well; ¼ mi. from center business section.

Boilers, 3 return tubular 100-hp. ea. 125 & 150 lb.; hand stoking; pump, 1-720,000 gal.; pumping direct.

Pipe, 4 mi. 4 to 10-in. c. i.; hyd. 55, hose con. 2½-in.; valves, 20; ord. pres. 60 lb., fire pres. 150 lb.

ST. AUGUSTINE, 5,494.

MUNICIPAL.

Chmn. Trustees, L. A. Colee..St. Augustine
Sec. & Treas., Mr. Lopez.... " "
Supt., A. J. Pelier..... " "

Artesian wells, 2, 10 & 12-in. 500 ft. deep; no purification.

Boilers, 3 return tubular W. & W.;

pumps, 2-1,000,000 gal. ea. L-D-G & pumping to reservoir, 288,000 gal. and to standpipe (1897) 2. ft. in diam. 120 ft.high, steel.

Pipe, 10 mi. 6 to 12-in.; hyd. 130; hose con. 2½-in.; valves, 110; meters, 500 Pittsburgh; av. daily cons. 800,000 gal.; serv. con. 1100; ord. pres. 35 to 45 lb., fire pres. 90 lb.

Rates: flat, $1.00 mo.; meter, min.charge $1.00 mo. 40 cu. ft. per day.

ST. PETERSBURG, 4,127.

MUNICIPAL.

Comr., C. D. Hammond....St. Petersburg
Supt., G. H. Warner..... " "

Artesian wells, 7 7 & 10-in. 135 to 200 ft. deep; impounding reservoir, 20,000 gal.

Boilers, 2 hor. 100-hp. ea., one hor. 150-hp. Cole; pumps, 2-3,000,000 & 1,500,000 gal., McGowan; air compressors, 2 Ingersoll-Rand; pumping to elevated tank, 100 ft. high, 80,000 gal., steel.

Pipe, 32 mi. 4 to 12-in. c. i.; hyd. 150, hose con. 2½ & 4½-in. R. D. W.; valves, 160 r. & l. h. thd. R. D. W. & Nat'l Tube; meters, 1500 various; av. daily cons. 800,000 gal.; serv. con. 1800; ord. pres. 49 lb., fire pres. 95 lb.

Rates: flat, 50c. mo.; meter, min. charge 50c. mo., 20c. 1000 gal.

TALLAHASSEE, 5,018.

MUNICIPAL.

Chm. Comrs.,
Wm. M. McIntosh, Jr.,.....Tallahassee
Sec., J. W. Collins..... "
Treas., G. W. Saxon..... "
Supt., D. R. Swing..... "

Wells; ½ mi. from center distribution; no purification.

Boilers, 2 hor. 200-hp. Schofield; hand stoking; pumps, 2-400,000 gal. ea. Snow; pumping to standpipe (1903) 20 ft. in diam. 100 ft. high, steel.

Pipe, 8½ mi. 4 to 12-in. c. i. and cement; hyd. 79, hose con. 2½-in. Ludlow and Columbian; valves, 26 r. h. opening; meters, 721; av. daily cons. 125,000 gal.; serv. con. 721; ord. pres. 45 to 100 lb., fire pres. same.

Rates: meter, 33⅓c. 1000 gal. max., 10c. min.

TAMPA, 38,524.

TAMPA WATER WORKS COMPANY. Supplies West Tampa.

Gen. Mgr., Chester R. McFarland..Tampa
Supt., Orin S. McFarland..... "

Wells and spring; wells, 22, 175 to 350 ft. deep; chemical, hypochlorite of lime.

Boilers, one 125-hp., one 75-hp., 4 150-hp. ea. all return tubular; pumps, 2 triple expansion 5,000,000 gal. ea. R. D. W., one triple expansion 3,000,000 gal. Wheeler, one compound 2,000,000 gal. Worth., 2 duplex 1,000,000 gal. ea. Worth.; pumping direct and to standpipe, 110,000 gal., steel.

Pipe, 60½ mi. 4 to 20-in. w. i.; hyd. 649, R. D. W.; valves, 467 R. D. W.; av. daily cons. 4,560,000 gal.; serv. con. 6903; ord. pres. 60 to 100 lb.

Rates: flat, $8 bath $5,, closet $4; meter, min. charge $1.25 mo. 735 cu. ft., 17c. 100 cu. ft. max., 9c. min.

TITUSVILLE, 868.

MUNICIPAL.

Supt., Mr. Wilson.....Titusville

WARRINGTON,

Owned by U. S. Government and operated by Quartermaster Department U. S. Army, Fort Barrancas, Fla. See Fort Barrancas.

WEST PALM BEACH, 1,743.

WEST PALM BEACH WATER COMPANY.
Office, 12th & Court Sts., Miama.
V. Pres., J. N. MacGonigle.....Miama

WEST TAMPA, 8,258.

Supplied by Tampa Water Works Company. See Tampa.

WINTER GARDEN, 351.

WINTER GARDEN LIGHT & WATER COMPANY.

Pres., L. W. Tilden.....Winter Garden
Sec.-Treas. & Mgr.,
A. W. Hurley..... " "
Supt., M. C. Calvin..... " "

Boiler, 150-hp. N. & W.; steam engine, 180-hp. Skinner.

WINTERHAVEN, 375.

WINTERHAVEN WATER, ICE & LIGHT Co.
Owner & Mgr., W. F. Boyd...Winterhaven

Boiler, 200-hp. Erie; steam engine, 150-hp. Skinner.

GEORGIA

ADEL, 1,902.
MUNICIPAL.
Chmn. Comrs., J. A. Sutton.....Adel
Supt., T. R. Sutton..... "
Engr. P'g. Sta., S. F. Hutchinson..... "
Well, 5 ft. in diam. 590 ft. deep; 1 mi. from center distribution; impounding reservoir, 100,000 gal.
Boiler, return tubular 125-hp. Schoffield; mechanical stoking; air compressor, compound 420 cu. ft. Ingersoll-Rand; pumps, 2-108,000 gal. ea. McGowan; pumping to elevated tank, 80,000 gal., steel.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in. Columbian; valves, 10 r.h. thd.; av. daily con. 150,000 gal.; serv. con. 125; ord. pres. 45 to 50 lb.; fire pres. 80 to 100 lb.
Rates: flat, $1.25 mo.

ALBANY, 8,190.
MUNICIPAL ELECTRIC LIGHT & WATER WORKS.
Supt., L. J. von Weller.....Albany
Chmn. Comrs., H. A. Tarver..... "
Mgr. & Cont. Agt., Wm. Lockett... "
Eng. P'g Sta., I. L. McCaskill.... "

AMERICUS, 8,063.
MUNICIPAL.
Supt., J. B. Ansley.....Americus
Engr. P'g. Sta., J. S. Stevens..... "
Springs and artesian wells, 4, 6 to 10-in. 450 to 900 ft. deep; ¾ mi. from center distribution; impounding reservoir, 415,000 gal.
Boilers, 2 water-tube, 325-hp. ea. Standard and W. & W.; hand stoking; pumps, c. & f. wh. 1,500,000 gal. L. D. G., duplex comp. 1,000,000 gal. Deane; air compressors, 513 cu. ft. Ingersoll-Rand, 325 cu. ft. Bacon driven by steam engine, American Blower; pumping to standpipe (1888).
Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 121, hose con. 2½-in. R. D. W.. and Columbian; valves, 180 l. h. thd. various; meters, 530; av. daily cons. 604,000 gal.; serv. con. 1203; ord. pres. 60 to 98 lb., fire pres. 77 to 115 lb.
Rates: flat, $10 year; meter, 20c. 1000 gal.

ARLINGTON, 1,308.
MUNICIPAL.
Mayor, E. K. Rainey.....Arlington
Clerk, J. A. Timmons..... "
Supt., A. B. McCaskill..... "
Well, 8-in. 118 ft. deep; impounding reservoir, 150,000 gal.
Boiler, tubular 100-hp. Cole; hand stoking; pump, 288,000 gal.; air compressor; pumping to standpipe (1907) 50,000 gal., steel.
Pipe, ¾ mi. 4 to 12-in. c. i.; hyd. 14, hose con. 2½-in.; valves, 6 r. h. thd. Crane; av. daily cons. 125,000 gal.; serv. con. 150; ord. pres. 60 lb.; fire pres. 100 lb.

ASHBURN, 2,214.
MUNICIPAL.
Mayor, J. S. Betts.....Ashburn
Clerk & Treas., J. J. Story..... "
Cons. Engrs.,
J. B. McCrary Co.....Atlanta
Supt., S. B. Hudson.....Ashburn
Engr. P'g. Sta., V. B. Hudson.... "
Artesian wells, 3, 4½-in. 450 ft. deep.
Boilers, 2 tubular 125-hp. ea. Cole; hand stoking; pumps, 2-240,000 gal. ea. Worth.; pumping to standpipe (1909) 20 ft. diam. steel; distributing reservoir, 100,000 gal.
Pipe, 2½ mi. 4 to 12-in. c. i.; meters, 200 Pittsburgh; av. daily cons. 250,000 gal.; serv. con. 250; ord. pres. 43 lb.; fire pres. 100 lb.

ATHENS, 14,913.
MUNICIPAL.
Supt., Jas. Barrow.....Athens
City Engr., John W. Barnett..... "
Chemist, W. W. Brown..... "
OconeeRiver; 1¼ mi. from center distribution; impounding reservoir, 25,000,000 gal.; slow sand filter, 2,500,000 gal.; chemical, hypochlorite of lime.
Boilers, 2 hand stoking; pumps, 2-1,500,000 gal. Worth.; 1-3,500,000 gal. elec. driven Worth.; pumping to standpipe (1892), iron.
Hyd. 270 R. D. W.; valves, R. D. W; meters, 1600 National; av. daily cons. 1,300,000 gal.; serv. con. 1600; ord. pres. 65 to 140 lbs.

ATLANTA, 154,839.
Pres. of Comrs., W. E. Dunn.....Atlanta
Sec., W. G. St. John..... "
Gdn. Mgr., W. Z. Smith..... "
Supt. Const., W. M. Gapp..... "
Engrs. P'g. Sta.,
J. A. Stamps, C. B. Gramling.... "
River; 7 mi. from center distribution; impounding reservoir, 400,000,000 gal.; coagulating basins, 4-6,000,000 gal.; mechanical filters, 21,000,000 gal.; chemical, sulphate of alumina.
Boilers, 9 return tubular 85-hp. ea. Cole, 6 water-tube 300-hp. ea. B. & W.; hand stoking; pumps, 1-15,000,000 gal., 1-18,000,000 gal., 1-20,000,000 gal., 5-10,000,000 gal. ea.; elec. motors, 650-hp. 3 ph. 60 cys. G. E.; pumping direct.
Pipe, 333 mi. 4 to 36 in. c. i.; hyd. 3078, hose con. 2½-in.; valves, 4382; meters, 26,270; av. daily cons. 16,313,000 gal.; serv. con. 28,000 ord. pres. 30 to 110 lb., fire pres. 130 lb.
Rates: meter, 10c. per 1000 gal. max., 7c. min.

AUGUSTA, 41,040.
MUNICIPAL.
Supt., Chas. A. Maxwell.....Augusta
Comr. Public Works,
Nisbet Wingfield..... "

Engr. P'g. Sta., J. T. Gresham....Augusta
Savannah River; 6 mi. from center distribution; coagulating basin, 50,000 gal.; mechanical filters, 10,000,000 gal.; chemical, sulphate of alumina.

Boilers, 3 tubular, 450 -hp. Lombard; hand stoking; pumps, 3-6,000,000 gal. ea. R. D. W. driven by water turbines; pumping to reservoir, 50,000,000 gal.

Pipe, 103 mi. 4 to 30-in., c. i.; hyd. 1100, hose con. 2½ & 4-in. Ludlow; valves, 1800 r. h. thd. Ludlow; meters, 470 various; av. daily cons. 9,500,000 gal.; serv. con. 9000 ord. press. 60 to 100 lbs.

Rates: flat, $5 year; meter, 10c. 1000 gal.

BAINBRIDGE, 4,217.

MUNICIPAL.

Chmn. Comrs., W. J. Halder....Bainbridge
Mayor, J. W. Callahan..... "
Supt., E. N. Edwards..... "

Artesian well, 8-in. 550 ft. deep; 1,000 ft. from center distribution; impounding reservoir, 138,000 gal.

Boilers, 2 return tubular 150-hp. ea. Cole & Sheffield; pumps, 2-720,000 gal. ea. Worth.; pumping to standpipe (1890) 93,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 90, hose con. 3-in.; meters, 200 Hersey; av. daily cons. 430,000 gal.; serv. con. 40 to 100 lb., fire pres. 95 to 100 lb.

BARNESVILLE, 3,068.

MUNICIPAL.

Chm. Comrs., T. J. Berry.....Barnesville
Supt., G. W. Harris..... "

Springs and well; one mi. from center distribution.

Pumps, 1-864,000 gal., duplex one turbine 864,000 gal.; elec. motor, 75 kw. 2300 v. 3 ph. 60 cys. Allis C.; pumping to reservoir, 400,000 gal.

Pipe, 5 mi. 4 & 6-in.; hyd. 60, hose con. 3-in. Eureka; valves, r. h. thd.; meters, 200 National; av. daily cons. 200,000 gal.; serv. con. 300; ord. pres. 65 to 80 lb., fire pres. same.

Rates: flat, $1.00 mo.; meter, 5c. 1000 gal. max., 8c. min.

BAXLEY, 1,500.

MUNICIPAL.

Chm. Comrs., D. M. Minchew.....Baxley
Supt., J. A. Lynn..... "
Elec., O. B. Jay..... "

Well, 8-in. 480 ft. deep; at center distribution; impounding reservoir, 65,000 gal.; no purification.

Boiler, tubular 125-hp. Schofield; hand stoking; pumps, 504,000 gal. Platt; pumping to standpipe (1898), steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 34, hose con. 2½-in. Eureka; valves, 15; av. daily cons. 50,000 gal.; serv. con. 140; ord. pres. 30 to 35 lb., fire pres. 35 to 100 lb.

BLACKSHEAR, 1,235.

MUNICIPAL WATER & LIGHT PLANT.

Mayor, G. P. Gregory.....Blackshear
City Engr., B. D. Brantley..... "

BLAKELY, 1,838.

MUNICIPAL.

Supt., E. R. Adams.....Blakely

Well, 10-in. 850 ft. deep; near center distribution; no purification.

Boilers, 2 return tubular 300 hp. Schofield; hand stoking; pump, 440, gal. Gardner; hand stoking; pump 1-1,440,000 gal. Gardner; pumping to elevated tank (1899) 35,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½-in. R. D. W.; valves, 8 l. h. thd.; meters, 140 Neptune; av. daily cons. 100,000 gal.; serv. con. 493; ord. pres. 30 to 40 lbs., fire pres. 100 to 120 lb.

Rates: flat, $1.00 mo.; meter, min. charge $1.00 mo. 2000 gal.; 25c. 1000 gal. max., 15c. min.

BLUE RIDGE, 898.

MUNICIPAL WATER & LIGHT PLANT.

Mayor, R. T. Stiles.....Blue Ridge
Supt., S. M. Hale..... " "
Engr. P'g Sta., G. H. Pace...Chestnut Gap

Water turbine, 250-hp. Smith.

BOSTON, 1,130.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, E. C. Mulligan.....Boston
Supt., C. C. Wilder..... "
Sec. & Treas., B. F. Smith..... "

Boiler, 250-hp. Cole; steam engine, 100-hp.

BROXTON, 1,040.

MUNICIPAL.

Chmn. Comrs., J. C. Roddenbury..Broxton

BRUNSWICK, 10,182.

MUTUAL LIGHT & WATER CO.

Pres., F. D. M. Strachan.....Brunswick
Supt., J. M. Armstrong..... "
Sec. & Treas., G. H. Smith..... "

Boiler, 375-hp. Coatesville; steam engine, 500-hp.

BUENA VISTA, 1,016.

MUNICIPAL WATER & LIGHT DEPT.

Mayor, G. A. Cook.....Buena Vista
Supt., H. C. Goetlings..... " "

BUFORD, 1,683.

BONA ALLEN, INC. Pump water for municipal distribution system.

Pres., Bona Allen.....Buford
Chm. Comrs., V. H. Allen..... "
Supt., N. E. Brogden..... "

Creek; 1½ mi. from center distribution; no purification.

Boilers, 2 tubular 60-hp ea.; pumps, 2-1,500,000 gal. Worth.; pumping to standpipe (1903) steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 38; valves, 25; meters, 15 Hersey; serv. cons. 15.

CAIRO, 1,505.
MUNICIPAL.
Comr., W. G. Willie.....Cairo
" G. M. Poulk..... "
" A. L. Miller..... "
Supt., U. A. Clifford..... "
Well, 4-in. 700 ft. deep; no purification.
Boilers, 2 return tubular 100-hp. ea. Schofield; hand stoking; pump, 108,000 gal. Worth.; air lift; pumping to elevated tank (1906) 60,000 gal., steel.
Hyd. 23, hose con. 2½-in. Kupferle and Columbian; meters, 35 Hersey; av. daily cons. 45,000 gal.; serv. con. 212; ord. pres. 43 to 56 lb., fire pres. 48 to 110 lb.
Rates: flat, $1.00 mo.; meter, 20c. 1000 gal.

CALHOUN, 1,652.
MUNICIPAL WATER & LIGHT PLANT.
Mayor, Gus Hall.....Calhoun
Mgr., G. L. Gardner..... "
Supt., Marshall Montgomery..... "

CAMILLA, 1,827.
MUNICIPAL.
Supt., R. L. Haggard.....Camilla
Artesian well, 10-in. 400 ft. deep; at center distribution; impounding reservoir, 60,000 gal.; no purification.
Boilers, 2 tubular 160-hp. Schofield; hand stoking; pumps, 3-648,000 gal. Gardner; air compressors, 2 Ingersoll-Rand; pumping direct and to reservoir, 260,000 gal.; standpipe (1914) 200,000 gal., steel.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 33, hose con. 2⅝-in. Columbian, Herron and Kupferle; valves, 20 r. h. th.d; meters, 600 Hersey & Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 1000; ord. pres. 30 lb., fire pres. 90 to 150 lb.
Rates: flat, $1.25 mo.; meter, min.charge $1.00 mo. 4000 gal.

CANTON, *3,000.
MUNICIPAL.
Chm. Comrs., E. A. McCanless.....Canton
Comr., W. W. Fincher..... "
" L. A. McClure..... "
Supt., O. B. Galt..... "
Engr. P'g. Sta., V. F. Sullivan..... "
Etowah River; ½ mi. from center distribution; coagulating basins, 2, 500,000 gal.; chemical, sulphate of alumina.
Boilers, 2 water-tube 100 & 150-hp. Cole; hand stoking; pumps, 3-750,000 gal. ea. McGowan; pumping to standpipe (1908).
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 2½-in. Pratt & Cady; valves, 6 r. h. thd. Crane; meters, 150 Pittsburgh & Neptune; av. daily cons. 50,000 gal.; serv. con. 165; ord. pres. 50 to 65 lb., fire pres. 65 to 70 lb.
Rates: meter, 25c. 1000 gal. max., 10 c. min.

CARROLLTON, 3,297.
MUNICIPAL. Carrollton Light & Water Commission.
Chmn. Comrs., Edward Head...Carrollton
Comr., A. J. Baskin..... "
" W. T. Herrin..... "
Supt., J. A. Aycock..... "
Engr. P'g Sta., A. M. Huckaba.. "
Impounding reservoirs, 2-2,520,000 gal. on Little Tallapoosa River; one mile from center business section; settling basin, 2,. 500,000 gal.; slow sand filter, 500,000 gal. Greer; chemical, sulphate of alumina.
Boilers, 2 100-hp. hor. tubular 150 lb. Cole 1905; pumps, 2-10,000 gal. hor. comp. d. act. Worth. 1905, 1-500,000 gal. vert. Morris 1905, 2-500,000 gal. hor. Platt 1908, d. con. to elec. motors, 2 Platt 1908; purchase energy from Carrollton Elec. Co.; pumping to standpipe (1905) 150,000 gal.
Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 85, hose con. 2½-in. Herron & Columbian; valves, 42 l. h. opening Herron; meters, 450 Hersey, Neptune & Pittsburgh; av. daily cons. 250,-000 gal. 90%; serv. con. 451; ord. pres. 50 to 60 lb., fire pres. 60 to 125 lb.
Rates; meter, $1 mo. 400 cu. ft., 20c. 1,000 gal. max., 15c. min.

CARTERSVILLE, 4,067.
MUNICIPAL.
Mayor, C. W. Young.....Cartersville
Supt., J. E. Wikle..... "
Etowah River; 1½ mi. from center distribution; slow sand filter, 1,000,000 gal.; chemical, sulphate of alumina.
Boilers, 2 hor. 80-hp. ea.; pumps, 2-1,500,000 gal. Worth.; elec. motors, 2 75-hp. 2300 v. 3 ph. 60 cys. Fort Wayne; pumping to reservoir, 1,300,000 gal. concrete.
Pipe, 18 mi. 4 to 12-in.; hyd. 114, hose con. 2½-in. Bourbon; valves, 85 r. h. thd.; meters, 65 Thomson & Hersey; av. daily cons. 600,000 gal.; serv. con. 800; ord. pres. 90 lb., fire pres. same.
Rates: meter, 25c. 1000 gal. max., 6½c. min.

CEDARTOWN,
MUNICIPAL. Water & Light Commission.
Chmn. Comrs.
H. N. Van Devander.....Cedartown
Comr., C. Willingham..... "
" R. V. Wood..... "
Clerk, J. C. Walker..... "
Supt. & Engr. P'g Sta.
W. T .Hardy..... "
Impounding reservoir, 184,000 gal. & spring; ¾ mi. from center business section; no purification.
Boilers, 2 hor. return tubular 150-hp. 135 lb. Cole 1906; hand stoking; pumps, 2-1,000,000 gal. hor. comp. d. act. Snow 1891; 1,000,000 gal. hor. comp. d. act. Snow 1891 steam engines, 2 Snow 1891; elec. generators, 2 105-hp. ea. Ft. Wayne; pumping direct & to standpipe (1891) 184,000 gal.
Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 98, hose con. 2½-in.; valves, 48 l. h. opening Ludlow & Crane; meters, 480 various; av. daily

cons. 500,000 gal. 50%; serv. con. 800; ord. pres. 91 lb., fire pres. 75 to 95 lb.

Rates; flat, 50c. mo., bath 35c., closet 40c.; meter, 50c. mo. 400 cu. ft., 12.5c. 100 cu. ft. max., 5c. min.

CLAXTON, 1,008.

MUNICIPAL LIGHT & WATERWORKS.

Supt., W. L. Anderson.....Claxton
Engr. P'g Sta., Henry Gennes.... "

Boiler, 125-hp. Casey Hedges; steam engine, 80-hp. Ball.

COCHRAN, 1,531.

MUNICIPAL.

Mayor, J. H. Mullis, Jr.....Cochran
Chmn. Lt. & Wtr. Comrs.,
H. F. Bullard..... "
Supt., C. W. Davis..... "
City Clerk, J. E. Cook..... "

Artesian well, 6-in. 363 ft. deep; at center distribution; no purification.

Boilers, 2 return tubular Schofield; hand stoking; pumps, 1-792,000 gal. Worth.; pumping to elev. tank, 60,000 gal. steel.

Pipe, 3 mi. c. i.; hyd. 23, hose con. 2½-in. Herron; valves, 18 r. h. thd.; U. S. Cast Iron Pipe Co. meters, 100 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 230; ord. pres. 40 to 50 lb., fire pres. 100 lb.

Rates; flat, $1 mo.; meter, 25c. 1,000 gal.

COLLEGE PARK, 2,173.

MUNICIPAL WATER & LIGHT DEPARTMENT.

Mayor, B. S. Hewey.....College Park
Supt., W. Whipple..... " "

COLQUITT, 600.

MUNICIPAL.

Mayor, S. D. Wilkins.....Colquitt
Supt., P. T. James..... "

Artesian well, 8-in.; ¾ mi. from center distribution.

Boiler, tubular 125-hp. Cole; hand stoking; pump, Dayton; pumping to elevated tank, 62,400 gal. iron.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 26, hose con. 4-in.; valves, 9 r. h. thd.; meters, none; av. daily cons. 125,000 gal.; serv. con. 125; ord. pres. 25 to 40 lb., fire pres. 120 lb.

Rates: flat, 75c. mo.

COLUMBUS, 20,554.

MUNICIPAL.

Supt., Dudley Chipley.....Columbus

Chattahooche River; mech. filters, 4.

Elec. motors; serv. con. 3,500; ord. pres. 75 to 90 lb.

COMMERCE, 2,238.

MUNICIPAL.

Chm. Comrs., C. J. Hood.....Commerce
Comrs., F. H. Aderhold..... "
" J. B. Hardman..... "
Supt., D. L. Caston..... "
Engr. P'g. Sta., E. B. Caston... "

River; 2 mi. from center distribution; impounding reservoir, 1,125,000 gal.; coagulating basin, 15,000 gal.; mechanical filters, 250,000 gal.; chemicals, sulphate of alumina and hypochlorite of lime.

Boiler, hor. tubular 100-hp. Cole; hand stoking; pump, 750,000 gal. McGowan; pumping to elevated tank, 75,000 gal., steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 34, hose con. 2½-in. Pratt & Cady; valves, 15 r. h. thd. Crane; meters, 135, 112 Pittsburgh,; av. daily cons. 125,000 gal.; serv. con. 310; ord. pres. 40 to 55 lb., fire pres. same.

Rates: flat, 60c. mo.; meter, min. charge 60c. mo., 25c. 1000 gal. max., 10c. min.

CONYERS, 1,919.

MUNICIPAL.

Mayor, W. R. Still.....Conyers
Chm. Comrs., C E. Reagan..... "
Supt., C. B. Irwin..... "

Well, 6-in. 350 ft. deep; 2 mi. from center distribution; impounding reservoir, 220,000 gal.

Boiler, return tubular 100-hp. Cole; hand stoking; pumps, 3-1,656,000 gal. Platt; air compressors, 2 Claxton; elec. motors, 2-82 kw. 2200 v. 3 ph. 60 cys. Fort Wayne and G. E.; pumping to standpipe (1913) 100,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 44, hose con. 2½-in.; valves, r. h. thd. Crane; meters, 125 Hersey; av. daily cons. 20,000 gal.; serv. con. 125; ord. pres. 55 to 67 lb., fire pres. 80 to 125 lb.

CORDELE, 5,883.

MUNICIPAL.

Mayor, Fred Harter.....Cordele
Supt., Wm. Webb..... "

CORNELIA,

MUNICIPAL.

Chmn. Wtr. Comrs., L. Y. Irvin....Cornelia
Des. Engr., J. B. McCrary & Co.
Atlanta, Ga.
Supt. & Engr. P'g Sta.
Howard Christian.....Cornelia
City Clerk D. A. Henderson.....Cornelia

Hill springs; ½ mi. from center distribution; settling basin, 150,000 gal.

Pump, 1-259,200 gal. Deane belted to elec. motors, 12 kw. 220 v. 3 ph. 60 cys. G. E.; elec. energy from Wofford Shoals Lt. & Pwr. Co.; pumping to standpipe (1913) steel.

Pipe, 5 mi. c. i.; hyd. 32, hose con. 2-in.; valves, 18 r. h. thd.; meters, 70 Pittsburgh; av. daily cons. 135,000 gal.; serv. con. 70; ord. pres. 50 to 115 lb., fire pres. same.

Rates; all meter, $1 3,000 gal.

COVINGTON, 2,679.

MUNICIPAL.

Mayor, R. E. Everett.....Covington
Chm. Comrs., R. E. Stephenson. "
Supt. & Des. Engr.,
F. P. Harrison..... "

Dried Indian Creek; 1½ mi. from center distribution; impounding reservoir, 1,000,000 gal.; coagulating basin, 720,000 gal.;

slow sand filter, 720,000 gal.; chemical, sulphate of alumina.

Boiler, water tube 160-hp. Sterling; hand stoking; pumps, 4-3,456,000 gal.; 2 centrifugal, 2 steam Platt and Worth.; elec. motor, 75 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe, 150,000 gal., steel.

Pipe, 6 mi. 4 to 12-in.; hyd. 50, hose con. 2½-in. Eureka; valves, 16; meters, 350 Neptune; av. daily cons. 200,000 gal.; serv. con. 350; ord. pres. 40 to 65 lb., fire pres. 100 to 135 lb.

CUTHBERT, 3,210.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.

Chm. Comrs., Wm. Sessions.....Cuthbert
Supt., T. F. Crawley..... "
Sec. & Treas., E. E. Sharley..... "

Boiler, 300-hp. Cole; steam engine, 175-hp.

DALTON, 5,324.

MUNICIPAL.

Mayor, J. F. Harris.....Dalton
Supt., J. C. Black..... "

DARIEN, 1,391.

DARIEN ICE & LIGHT COMPANY pump water to municipal distribution system.

Pres., J. F. Thompson.....Darien
Supt.,
J. J. Woodward (D. I. & L. Co.).. "
Chm. Comrs., E. G. Cain, Jr..... "
City Clerk, John G. Legan..... "

Wells, 3, 3 to 6-in. 535 ft. deep; 1500 ft. center distribution; no purification.

Pump, 118,000 gal. Platt driven by elec. motor; pumping to distributing reservoir, 60,000 gal.

Av. daily cons. 12,000 gal.; serv. con. 60; ord. pres. 38 to 40 lb., fire pres same.

Rates: flat, $6 to $10 year.

DAWSON, 3,827.

MUNICIPAL WATER & LIGHT PLANT.

Chmn. Comrs., J. C. Hollingsworth. Dawson
Supt., J. D. Collier..... "

Boiler, 300-hp. Cole; steam engine, 440-hp. Allis-C.

DECATUR, 2,466.

MUNICIPAL.

Supt. & Des. Engr., J. T. Nash....Decatur
Engr. P'g Sta., N. E. Norris..... "
Chemist, Dr. J. Sam Guy..... "

Burnt Fork River & creek; 2.25 mi. from center business section; settling basin, 750,000 gal.; coagulating basin, 250,000 gal.; slow sand filter, 600,000 gal.; chemical, sulphate of alumina.

Boilers, 2 tubular 100-hp. 90 lb. Cole 1908; pumps, 2-750,000 gal. hor. comp. d. act. McGowan 1908; pumping to elev. tank (1908) 80,000 gal. steel, Cole Mfg. Co.

Pipe, 19.5 mi. 2 to 6-in. c. i. & galv. i.; hyd. 88, hose con. 2½-in. Columbian; valves, 40 r. h. opening National; meters, 850 Hersey & Worth.; av. daily cons. 375,000 gal. 60%; serv. con. 1,000; ord. pres. 30 to 70 lb.

Rates; meter, 80c. mo. 5,000 gal., 16c. 1,000 gal. max., 8c. min.

DEXTER, 550.

MUNICIPAL.

Mayor, J. Kennedy.....Dexter

DOERUN, 630.

MUNICIPAL.

Supt., E. M. Fain.....Doerun

Artesian well, 8-in. 490 ft. deep; at center distribution; impounding reservoir, 100,000 gal.; no purification.

Boiler, hor. tubular 100-hp. Cole; air compressor, Ingersoll-Rand; pumps, 1,152,000 gal. Platt; pumping to reservoir, 40 ft. in diam. 10 ft. deep, 100,000 gal.; elevated tank, 100 ft. high, 60,000 gal., steel.

Pipe, one mi. 4 to 12-in. c. i.; hyd. 14, hose con. 2½-in. Eureka; valves, 20 r. h. thd. Crane; meters, 20 Thomson; av. daily cons. 25,000 gal.; ord. pres. 40 lb., fire pres. 100 to 140 lb.

Rates: flat, $1 mo.; meter, 25c. 1000 gal. max., 5c. min.

DONALSONVILLE, 747.

MUNICIPAL.

Mayor, W. H. Vanlandingham..Donalsonville
Sec., I. R. Aultman, Jr..... "
Supt., F. M. Stedham..... "

Artesian well; near center business section; no purification.

Boilers, 2 125-hp. 125 lb. Schofield & Cole; air lift pump 1910; pumping to elev. tank (1905) 30,000 gal.

Rates; all meter, $1 4,000 gal.

DOUGLAS, 3,550.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, Moses Griffen.....Douglas
Supt., W. H. Saunders..... "

Boiler, 450-hp. Cole; steam engine, 325-hp.

DOUGLASVILLE, 1,462.

MUNICIPAL LIGHT & WATERWORKS.

Supt., W. J. Radcliffe.....Douglasville

Creek; 1.5 mi. from center business section; slow sand filter, 250,000 gal. J. B. McCrary Co.; chemical, sulphate of alumina.

Pump, 1-250,000 gal. hor. Platt 1911; elec. motor, 35-hp. 2,300 v. 3 ph. 60 cys. Ft. Wayne 1911; pumping to elev. tank (1911) 85,000 gal. iron, Cole.

Hyd. 23, hose con. 2½-in. Columbian; valves, 13 l. h. opening Crane; meters, 100 Buffalo, Pittsburgh & Westg.; av. daily cons. 40,000 gal.; serv. con. 170; ord. pres. 45 to 50 lb., fire pres. 50 to 125 lb.

Rates; meter, 75c. mo. 3,000 gal., 25c. 1,000 gal.

DUBLIN, 5,795.

MUNICIPAL.

Supt., M. J. Guyton.....Dublin
Engr. P'g. Sta., W. J. Chapman.... "

Artesian wells, 6, 6-in. 450 ft. deep; at center distribution; impounding reservoir, 600,000 gal.; no purification.

Boilers, 4 return tubular 750-hp. Schofield pumps, 2-1,000,000 gal. ea.; pumping direct and to standpipe (1892).

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 83, hose con. 2½-in. Pratt & Cady; valves, 49 r. h. thd.; meters, 700 Pittsburgh; av. daily cons. 340,000 gal.; serv. con. 720; ord. pres. 40 to 60 lb., fire pres. 79 to 90 lb.

Rates: flat, $2 mo.; meter, 25c. 1000 gal.

EASTMAN, 2,355.

MUNICIPAL.

Mayor, J. P. Rawlins.....Eastman
Supt., O. R. Bennett..... "

Boiler, 120-hp.; steam engine, 120-hp.

EAST POINT, 3,682.

MUNICIPAL LIGHT & WATER DEPT.

Mayor, A. J. McCoy.....East Point
Supt., J. W. Eubanks..... " "

Boiler, 300-hp. Cole; steam engine, 200-hp.

EATONTON, 2,036.

MUNICIPAL.

Comr., W. S. Smith.....Eatonton
" R. K. Matthews..... "
" S. A. Clark..... "
Supt., H. A. Young..... "
Engr. P'g. Sta., W. O. Sanders... "

Creek; 1¾ mi. from center distribution; impounding reservoir, 400,000 gal.; coagulating basin, 250,000 gal.; mechanical filters, 400,000 gal.; chemical, sulphate of alumina.

Boilers, 2 return tubular 40-hp. ea. Schofield; hand stoking; pumps, 2 simple and compound duplex 1,500,000 gal. Worth.; pumping to standpipe (1897) 100,000 gal., steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 48, hose con. 2½-in. Ludlow; valves, 27 r. h. thd. Ludlow; meters, 185 mostly Pittsburgh; av. daily cons. 80,000 gal. serv. con. 195; ord. pres. 26 to 52 lb., fire pres. 90 lb.

Rates: meter, 5c. 1000 gal. max., 20c. min.

ELBERTON, 6,483.

MUNICIPAL.

Supt., S. W. Allen.....Elberton
Engr. P'g Sta., A. P. Smith..... "
Chemist, Dr. Wedford Brown.....Athens

Beaverdam Creek, Sayre Creek & impounding reservoir, 375,000 gal.; settling basin, 275,000 gal.; mech .filters, 400,000 gal. Pittsburgh; chemical, sulphate of alumina.

Boilers, 2 return tubular 80-hp. 110 lb. Lombard 1904; pumps, 2-750,000 gal. hor. comp. d. act. Herron 1904, 1-500,000 gal. hor. simple d. act. Herron 1904; steam engine, 150-hp. Fitchburg 1909; water turbines, 2 125-hp. ea. Davis; elec. generators, 2 90 & 200-hp. Ft. Wayne; pumping to elev. tank (1904) 100,000 gal. steel.

Pipe, 10 mi. ¾ to 8-in. c. & galv. i.; hyd. 59, hose con. 2½-in. various; valves, 30 l. h. opening Herron; meters, 234 various; valves, 30 l. h. opening Herron; meters, 234 various; av. daily cons. 175,000 gal.; serv. con. 700; ord. pres. 45 to 53 lb., fire pres. 45 to 80 lb.

Rates; flat, $1.94 quarter; meter, $1 mo. 5,000 gal.; 22.5c. 1,000 gal. max., 9c. min.

FAIRBURN, 1,395.

MUNICIPAL.

Mayor, L. M. Westbrook.....Fairburn
Supt., D. J. Lambert..... "
City Clerk, W. B. Green..... "

FITZGERALD, 5,795.

FITZGERALD WATER, LIGHT & BOND COMMISSION.

Chmn. Comrs., E. Hussey.....Fitzgerald
Sec., A. H. Thurman..... "
Comr., John Darminy..... "
Supt. & Engr. P'g Sta., A. A. Green "

Artesian well, 10-in. 1,000-ft. deep; ¾ mi. from center business section.

Boilers, one hor. 150-hp. 110 lb. Union 1912, 1 hor. 150-hp. 110 lb. Schofield 1904, 1 hor. 120-hp. 110 lb. Schofield 1898, 1 hor 120-hp. 110 lb., Schofield 1898; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Platt 1908, 2-500,000 gal. simple d. act. Worth. 1898; air compressors, 1 500 cu. ft. Ingersoll Rand 1909, 1 250 cu. ft. Gardner 1905, driven by steam engines, 1 hor. 500-hp. Harrisburg, 1 hor. 375-hp. Lane & Bodley, 1 hor. 150-hp. Harrisburg; pumping to reservoirs, 2-170,000 gal. & standpipe (1896) 100,000 gal. steel.

Pipe, 11.5 mi. 6 to 10-in. c. i.; hyd. 90, hose con. 2½-in. R. D. W.; valves, 40 l. h. opening R. D. W.; meters, 915 Pittsburgh; av. daily cons. 350,000 gal. 90—; serv. con. 928; ord. pres. 40 to 47 lb., fire pres. 110 to 130 lb.

Rates; meter, min. charge 50c. mo. 2,000 gal., 20c. 1,000 gal. max., 10c. min.

FORSYTHE, 2,208.

MUNICIPAL.

Mayor, F. N. Wilder.....Forsythe
Chm. Comrs., W. C. Hill..... "

FORT GAINES, 1,320.

MUNICIPAL.

Mayor, M. C. Gay.....Fort Gaines
Supt., Ross Shaw..... " "

FORT VALLEY, 2,697.

MUNICIPAL.

Comr., O. G. Singleton.....Fort Valley
" B. T. Marshall..... " "
" N. D. Murray..... " "
" C. T. Eberhart..... " "
Supt., J. L. Fincher..... " "
Engr. P'g Sta., J. G. Bostwick. " "

Wells, 3 6-in. 350 ft. deep; at center distribution; no purification.

Boilers, 2 return tubular 80-hp. Schofield; hand stoking; pumps, 2-504,000 gal. ea.

Platt; pumping to standpipe (1893) 200,000 gal.

Pipe, 5 mi. 4 to 10-in.; hyd. 45, hose con. 2½-in. R. D. W.; meters, 250 various; av. daily cons. 150,000 gal.; serv. con. 250; ord. pres. 40, fire pres. 75 lb.

Rates; meter, 20c. 1000 gal.

GAINESVILLE, 5,925.

MUNICIPAL.

Chmn. Comrs., John A. Pierce...Gainesville
Supt., C. L. B. Sanders..... "

Cry Creek; 3 mi. from center distribution; settling basins, 2-1,440,000 gal.; mechanical filters, 2; chemicals, sulphate of alumina & lime.

Boiler, fire tube 150-hp. Cole; hand stoking; pumps, 2-2,160,000 gal. Worth.; driven by elec. motor, 50-hp. 2,200 v. 2 ph. 60 cys. G. E.; pumping to elev. tank, 200,000 gal. iron.

Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 120, hose con. 2½-in. Ludlow & R. D. W.; valves, 75 r. h. thd. Crane; meters, 600 Neptune; av. daily cons. 500,000 gal.; serv. con. 900; ord. pres. 60 to 90 lb., fire pres. same.

Rates; flat, 60 c. mo.; meter, 15c. 1,000 gal.

GREENSBORO, 2,120.

MUNICIPAL WATER & LIGHT PLANT.

Mayor, L. H. Branch.....Greensboro
Supt., A. A. Ponder..... "

GREENVILLE, 5,925.

MUNICIPAL.

Mayor, J. A. Thrash.....Greenville
Clerk & Treas., D. O. Phillips... "
Supt., H. B. Adcock..... "
Cons. Engrs., J. B. McCrary Co....Atlanta

Small creek; ¼ mi. from center distribution; coagulating basin, 75,000 gal.; slow sand filter, 75,000 gal.; clear water basin 100,000 gal.; chemical, sulphate of alumina.

Boiler, hor. return tubular 125-hp. Cole; hand stoking; pumps, 2-144,000 & 750,000 gal. Platt; elec. motor, 1-5 kw. 220 v. 3 ph. 60 cys. Fort Wayne; pumping to elevated tank, 65,000 gal. steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 3-in. R. D. W.; valves, 5 l. h. thd. Crane; meters, 80 Pittsburgh and Neptune; av. daily cons. 30,000 gal.; serv. con. 80; ord. pres. 40 to 110 lb., fire pres. same.

Rates: meter, min. charge $1.00 mo. 4000 gal., 25c. 1000 gal.

GRIFFIN, 7,478.

MUNICIPAL.

Chm. Comrs., J. W. Hammond....Griffin
Treas., E. C. Smith..... "
Comr., C. B. Thomas..... "
Supt., G. J. Drake..... "

Wells, 4, 6 & 8-in. 500 ft. deep; 1¾ mi. from center distribution; impounding reservoirs, 2-900,000 gal.

Boilers, 3 hor. tubular, 2, 125-hp., 1, 150-hp. Cole; hand stoking; pumps, 1-720,000 gal. steam Worth.; 1 504,000-gal. power Worth. d. con. to elec. motor, 50-hp. 2200 v. 3 ph. 60 cys. G. E.; air compressor, one Sullivan; steam driven, one Ingersoll-Rand driven by elec. motor, 75-hp. 2200 v. 3 ph. 60 cys. G. E.; pumping to elevated tank, 275,000 gal., steel.

Pipe, 17 ni. 4 to 12-in. c. i.; hyd. 130, hose con. 2½-in. various; valves, 100 l. h. opening Crane and Bourbon; meters, 600 mostly Thomson; av. daily cons. 280,000 gal.; serv. con. 617; ord. pres. 50 to 65 lb., fire pres. 50 to 100 lb.

Rates: flat, 75c. mo.; meter, 15c. 1000 gal.

HAWKINSVILLE, 3,240.

MUNICIPAL.

Mayor, Morgan Thompson...Hawkinsville
Supt., H. Vining..... "
City Engr., Arthur Pew..... "

HAZLEHURST, 1,181.

MUNICIPAL.

Mayor, D. B. McDonald.....Hazlehurst
Chmn. Comrs. & Supt.,
F. H. Haynes..... "

JACKSON, 1,862.

MUNICIPAL.

Chm. Comrs., J. H. McKibben...Jackson
Mayor, W. E. Watkins..... "
City Clerk, J. A. McMichael..... "
Supt. & Engr. P'g. Sta.,
Wm. E. Merck..... "

Yellow-Water Creek; 1 mi. from center distribution; impounding reservoir, 750,000 gal.; coagulating basin, 16x50 ft.; mechanical filter, 375,000 gal.; chemical, sulphate of alumina.

Boiler, hor. 150-hp. Cole; hand stoking; pumps, 1-936,000 gal. McGowan, one centrifugal 1,440,000 gal. Buffalo d. con. to elec. motor, 100-hp. 2200 v. 3 ph. 60 cys. Westg.; pumping to elevated tank, 75,000 gal., iron.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 43, hose con. 2½-in. Herron & Columbian; valves, 20 l. h. thd. various; meters, 10 Hersey; av. daily cons. 85,000 gal.; serv. con. 260; ord. pres. 45 to 55 lb., fire pres. same.

Gates: flat, $1.00 mo.; meter, 20c. 1000 gal. max., 9c. min.

JESSUP, 1,207.

MUNICIPAL WATER & LIGHT DEPT.

Mayor, R. L. Bennett.....Jessup
Supt., G. L. Horton..... "

KIRKWOOD, 1,226.

MUNICIPAL.

Supt., O. O. Ray.....Kirkwood
Ch. Engr. P'g. Sta., William Foster "

Artesian well; at center distribution; settling basin, 20,000 gal.

Pumps, 2-648,000 gal. ea. Jeansville; elec. motors, 100-kw. 550 v. 3 ph. 60 cys. Ft. Wayne; pumping to standpipe (1911) steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 72, hose con. 2½-in. Gen. Fire; valves, 105 l. h. thd. Nat'l. Tube; meters, 624 Worth.; av. daily

cons. 150,000 gal.; serv. con. 627; ord. pres. 45 lb., fire pres. 90 to 140 lb.

LA FAYETTE,
MUNICIPAL.
Supt., W. H. Steele.....La Fayette
Springs; one mi. from center distribution.
Boilers, 2 hor. tubular 80-hp. ea. R. D. Cole; hand stoking; pumps, 2 comp. duplex 792,000 gal. ea. Platt; pumping direct and to reservoir (1910) concrete.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 43, hose con. 2½-in. Columbian; valves, 24 r. h. thd. Crane; meters, 40 Buffalo & Worth.; serv. con. 104.
Rates; flat, 75c. mo.; meter, 25c. 1,000 gal. max., 8c. min.

LA GRANGE, 5,587.
MUNICIPAL.
Mayor, J. D. Edmundson.....La Grange
Chm. Comrs., C. V. Truitt..... " "
Comr., W. S. Davis..... " "
" H. H. Childs..... " "
Cons. Engr., J. N. Hazlehurst... " "
Supt., George H. Sargent..... " "
Ch. Engr. P'g. Sta.,
J. T. Sutherland..... " "
Long Cane Creek; 4 mi. from center distribution; coagulating basin, 300,000 gal.; mechanical filters, 1,500,000 gal.; chemical, sulphate of alumina.
Pumps, 2 triplex 1,000,000 gal. ea., 3-4,000,000 Buffalo d. con. to elec. motors, 2300 v. 3 ph. 60 cys. Westg.; pumping to standpipe (1892) steel.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 147, hose con. 2½-in. Ludlow & Columbian; valves, 165 r. h. thd. Ludlow and Columbian meters, 550 National and Hersey; av. daily cons. 300,000 gal.; serv. con. 580; ord. pres. 50 lb., fire pres. 75 to 125 lb.
Rates: meter, min. charge $1.00 mo., 30c. 1000 gal.

LAWRENCEVILLE, 1,518.
MUNICIPAL.
Mayor, L. R. Martain.....Lawrenceville
Chm. Comrs.,
Dr. D. C. Kelly..... "
City Clerk, H. J. Hinton.... "
Supt. & Engr. P'g. Sta.,
W. P. Webb..... "
Wells, one 8-in. 270 ft. deep; ¾ mi. from center distribution; impounding reservoir, 100,000 gal.; no purification.
Boiler, vertical 10-hp.; hand stoking; pumps, 1-360,000 gal. power triplex, 1-360,000 gal. centrifugal driven by elec. motors, 10 & 75-hp. 2200 v. 3 ph. 60 cys. Ft. Wayne; pumping direct and to standpipe, steel.
Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 3-in.; valves, 50 r. gh. thd.; meters, 160 Hersey; av. daily cons. 50,000 gal.; serv. con. 160; ord. pres. 40 lb.
Rates: meter, 75c. 1000 gal. max., 15c. min.

LOUISVILLE, 1,039.
MUNICIPAL.
Mayor, R. L. Betha.....Louisville
Clerk, J. H. Polhill..... "
Supt., W. E. Hudson..... "
Ch. Engr. P'g. Sta.,
Grady Perkins..... "
Artesian wells, 2, 6-in. 200 & 407 ft. deep; near center distribution; no purification.
Boilers, 2, 70-hp. Cole; hand stoking; pumps, 2 steam 288,000 & 432,000 gal. Worth.; pumping to standippe (1904), steel.
Pipe, one mi. 4 to 12-in.; hyd. 35, hose con. 3-in. Herron; valves, 4; meters, 80 Worth. & Hersey; av. daily cons. 30,000 gal.; serv. con. 150; ord. pres. 40 lb., fire pres. 100 lb.
Rates: flat, $1.00 mo.; meter, min. charge $1.25 mo., 30c. 1000 gal. max., 25c. min.

LUMPKIN, 1,140.
MUNICIPAL.
Supt., C. C. Bush.....Lumpkin
Springs; impounding reservoir, 40,000 gal.; no purification.
Boilers, one vertical 30-hp. Cole, one hor. 50-hp. Newman; hand stoking; pumps, 2-288,000 gal. ea. Platt; pumping to standpipe (1904) iron.
Pipe, 2½ mi. 4 & 6-in. c. i.; hyd. 24, hose con. 2½-in.; valves, 8; meters, 4; av. daily cons. 50,000 gal.; serv. con. 190; ord. pres. 20 to 43 lb., fire pres. 100 to 200 lb.
Rates: flat, $1.00 mo., bath 25c., closet 25c.; meter, 15c. 1000 gal.

LYONS, 927.
MUNICIPAL WATER & LIGHT DEPT.
Mayor, W. C. Oliver.....Lyons
Supt., E. O. Green..... "

McDONOUGH, 882.
MUNICIPAL.
Supt. & Engr. P'g Sta.,
J. H. Patterson.....McDonough
Cons. Engr., J. B. McCrary Co.....Atlanta
Deep spring & reservoir, 94,000 gal., near center distribution; no purification.
Pumps, 1-720,000 gal. Platt, 1-216,000 gal. Platt; d. con. to elec. motors, 60 & 10-kw. 220 & 2,200 v. 3 ph. 60 cys. G. E.; pumping to elev. tanks, 75,000 gal. steel.
Pipe, 4.7 mi. 4 to 12-in. c. i; hyd. 53, hose con. 2½-in.; valves, 27 r. h. thd. Crane; meters, 140 Hersey; av. daily cons. 35,000 gal.; serv. con. 140; ord. pres. 40 to 50 lb., fire pres. 100 to 125 lb.

MACON, 40,665.
MUNICIPAL. Supplies Englesides, Crump Park, and Bellevue.
Chm. Comrs., W. H. Fetner.....Macon
Sec. & Treas., J. E. Guilford..... "
Comr., W. A. Huff..... "
" C. Y. Williamson..... "
Supt., H. D. Longworthy..... "
Springs; mechanical filters, 5-333,000 gal. Continental; chemical, sulphate of alumina and hypochlorite of lime.
Boilers, 2 200-hp. B. & W., one 210-hp.

A. & R.; pumps, 2 steam c. & f. wh. 7,000,000 L. D. G., 1-5,000,000 gal. power vert. comp. R. D. W., 2-5,000,000 gal. tri. exp. Worth., 1-5,000,000 gal. R. D. W., 1-1,500,000 gal. Worth., 1-1,000,000 gal. centrifugal; pumping to reservoir, 2,500,000 gal. and standpipe, 883,000 gal.

Pipe, 83 mi. 4 to 20-in. c. i.; hyd. 525 R. D. W. and Columbian; valves, 623 R. D. W., Crane and Columbian; meters, 55 per cent. various; av. daily cons. 5,000,000 gal.; serv. con. 7,000; ord. pres. 40 to 60 lb.

Rates: flat, $6 year, bath $4, closet $5; meter, min. charge 60c. mo., 20c. 1000 gal. max., 10c. min.

MADISON, 2,412.

MUNICIPAL.

Supt., G. W. Hubbard.....Madison
Ch. Engr. P'g. Sta., J. W. Walsh.. "

Creek; 2¼ mi. from center distribution; impounding reservoir, 700,000 gal.; coagulating basin, 700,000 gal.; slow sand filter, 720,000 gal.; chemicals, sulphate of alumina and hypochlorite of lime.

Boilers, 2 return tubular 100 & 150-hp. Cole & Russell, hand stoking; pumps, 4-720,000 gal. ea. Worth.; elec. motors, 2-30 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe, iron.

Pipe, c. i.; hyd. 46, hose con. 2½-in. Pratt & Cady; valves, r. h. thd.; meters, 160 mostly National; av. daily cons. 100,000 gal.; serv. con. 165; ord. pres. 35 to 60 lb., fire pres. 110 lb.

Rates: meter, 20c. 1000 gal.

MARIETTA, 5,949.

MUNICIPAL WATER & LIGHT DEPT.

Mayor, J. J. Black.....Marietta
Supt., T. M. Early..... "
Sec., M. E. Edwards..... "

MEIGS, 697.

MUNICIPAL.

Supt., V. H. Harris.....Meigs

Well, 10-in. 769 ft. deep; near center distribution; no purification.

Boilers, 2 80-hp. ea. Ames; hand stoking; pumps, 2-720,000 gal. ea. Platt; air compressor, 500 cu. ft. Ingersoll-Rand; pumping to reservoir, 120 gal. and tank (1913) 60,000 gal. steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 16, hose con. 2½-in. Columbian; valves, 18 r. h. thd. Columbian; meters, 15 Neptune; av. daily cons. 45,000; serv. con. 115; ord. pres. 38 to 45 lb., fire pres. 90 to 110 lb.

Rates: flat, $1.00 mo.; meters, 25c. 1000 gal.

MILLEDGEVILLE, 4,385.

BALDWIN COUNTY WATER CO. Controlled by American Pipe & Construction Company. Office, 112 North Broad St., Philadelphia, Pa. For executive offices see Philadelphia.

Local Supt., J. T. Jackson....Milledgeville

Deep & surface wells; mechanical filters.

Boilers, 2 50-hp. ea.; pumps, 2-500,000 gal. steam Deane; pumping direct & to standpipe, 153,000 gal.

Pipe, 7.5 mi. 4 to 10-in.; hyd. 79; valves, 65; meters, 288; av. daily cons. 150,000 gal.; ord. pres. 40 to 100 lb.

MILLEN, 2,030.

MUNICIPAL.

Mayor, I. O. Parker.....Millen
Treas., W. H. Brinson..... "
Mgr. & Supt., H. B. Davis..... "

Boiler, 124-hp. Cole.

MILLTOWN, 1,247.

MUNICIPAL WATER & LIGHT PLANT.

Mayor, Wm. Pafford.....Milltown
Chm. Comrs., W. J. Miller..... "
City Clerk, H. H. Jones..... "

MONTEZUMA, 1,630.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
W. R. Walters.....Montezuma

Wells, 3, 3 & 4½-in. 500 ft. deep; near center distribution; no purification.

Boiler, return tubular 50-hp. Schofield; hand stoking; pumps, 2-202,000 & 864,000 gal. Platt; pumping to reservoirs, 2-125,000 gal. and elev. tank, 140,000 gal., steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 2½-in. Dimmick; valves, 24 l. h. thd.; meters, 196 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 272; ord. pres. 40 to 65 lb., fire pres. 85 lb.

Rates: flat, 75c. mo.; meter, min. charge 75c. mo., 15c. 1000 gal. max., 4c. min.

MONTICELLO, 1,508.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, E. T. Malone.....Monticello
Supt., W. J. Phillips..... "
Sec. & Treas., J. B. Henderson.. "

Boiler, 125-hp. Schofield; steam engine, 75-hp. Woodbury.

MOULTRIE, 3,349.

MUNICIPAL.

Mayor, George R. Cline.....Moultrie
Comr., J. H. Shivers..... "
Supt., J. M. George..... "
Des. Engr., H. S. Jandon..... "

Wells, 2, 5 & 6-in. 505 & 620 ft. deep; ¾ mi. from center distribution; impounding reservoir, 175.000 gal.; no purification.

Boilers, 3 return tubular and marine 400-hp. Schofield; hand stoking; pumps, 3-2,664,000 gal. Gardner and Platt; air compressor, 2 Ingersoll-Rand; pumping to elevated tank, 150,000 gal., steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 76, hose con. 2½-in. Columbian; valves, 38 Columbian; meters, 495 Pittsburgh, Worth. and Neptune; av. daily cons. 160,000 gal.; serv. con. 565; ord. pres. 60 to 85 lb., fire pres. 85 lb.

NASHVILLE, 990.
MUNICIPAL WATER & LIGHT DEPT.
Mayor, J. D. Lovett.....Nashville
Supt., J. H. Sykes..... "
Boiler, 125-hp. Cole.

NEWNAN, 5,548.
MUNICIPAL.
Chm. Comrs., H. H. North..... Newnan
Comr., J. R. McCallum..... "
" F. M. Lee..... "
Sec., W. J, Holmes..... "
Supt., A. A. Passolt..... "
Springs and wells, 5, 8-in. 300 to 475 ft. deep; 2 mi. from center distribution; no purification.
Boilers, 2 hor. return tubular 65-hp. ea. Cole; hand stoking; pumps, 2-750,000 gal. steam ea. Platt, 1-1,000,000 gal. centrifugal Platt; elec. motor, 100-hp. 2300 v. 3 ph. 60 cys. G. E.; air compressor, Ingersoll-Rand; pumping direct and to reservoirs, 1,200,000 gal.; standpipe (1895) steel.
Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 83, hose con. 2½-in. R. D. W. and Columbian; valves, 80 r. & l. h. thd.; meters, 706 Thomson, Neptune and National; av. daily cons. 400,000; serv. con. 709; ord. pres. 40 to 55 lb., fire pres. 40 to 75 lb.
Rates: flat, none; meter, 20c. 1000 gal. max., 7c. min.

NORMAN PARK, 648.
MUNICIPAL WATER & LIGHT DEPT.
Mayor, J. B. Moreman.....Norman Park
Supt., T. E. Howell..... " "
Boiler, 175-hp. Schofield; steam engine, 75-hp.

OCILLA, 2,017.
MUNICIPAL WATER & LIGHT PLANT.
Mayor, H. E. Oxford.....Ocilla
Supt., R. J. Wilson..... "
Sec. & Treas., E. L. Caldwell..... "
Boiler, 200-hp. Schofield; steam engine, 140-hp. Allis-C.

OGLETHORPE, 924.
MUNICIPAL WATER & LIGHT DEPT.
Mayor, C. A. Green.....Oglethorpe
Supt., C. A. Allison..... "

PELHAM, 1,880.
MUNICIPAL.
Supt., J. T. Flint.....Pelham
Ch. Engr. P'g. Sta., J. B. Ellioutt.. "
Well.
Boilers,one Scotch marine, 4 return tubular 800-hp.; hand stoking; pumps, 3-2,180,000 gal. Worth. d. con. to elec. motors, 252-hp. 2250 v. 3 ph. 60 cys. G. E.; air compressor, L.-D.-G.; pumping to elevated tank, 65,000 gal.
Pipe, 8 mi. 4 to 12-in.; hyd. 30 hose con. 3-in.; av. daily cons. 150,000 gal.; serv. con. 300; ord. pres. 55 lb.
Rates: flat, none; meter, min. charge $1.35 mo., 27½c. 1000 gal.

QUITMAN, 3,915.
MUNICIPAL WATER & LIGHT PLANT.
Mayor, E. L. Jelks.....Quitman
Supt., F. C. Hertz..... "
City Clerk, G. B. Garwood..... "
Steam engine, 250-hp.

RICHLAND, 1,250.
MUNICIPAL WATER & LIGHT PLANT.
Mayor, W. B. Miller.....Richland
Chmn. Comrs., R. J. Dixon..... "
Supt., R. A. Goare..... "
Boiler, 200-hp. Schofield; steam engine, 125-hp. Corliss.

ROCKMART, 1,034.
MUNICIPAL.
Chm. Comrs., S. D. Lee.....Rockmart
Supt. & Engr. P'g. Sta.,
J. B. Cooper..... "
Cons. Engrs., J. B. McCrary Co....Atlanta
City Clerk, A. H. Graifer.....Rockmart
Spring and well, 10-in. 400 ft. deep; near center distribution; impounding reservoir, 180,000 gal.; no purification.
Boilers, 2 hor. 180-hp W. & W.; hand stoking; pumps, 2-2,500,000 gal. Platt; air compressor, Platt; pumping to reservoir, 180,000 gal.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 47, hose con. 3-in. Columbian; valves, 38 r. h. thd. Crane; meters, 100 Standard & Worth.; av. daily cons. 200,000 gal.; serv. con. 180; ord. pres. 87 lb., fire pres. 200 lb.
Rates: meter, min. charge 65c. 3000 gal., 15c. 1000 gal. max., 10c. min.

ROME, 12,099.
MUNICIPAL.
Supt., T. E. Grafton.....Rome
Clerk, J. M. Cooley..... "
Oostanaula River; 1½ mi. from center distribution; impounding reservoir, 3,500,000 gal.; mechanical filters, 4,000,000 gal.; chemical, sulphate of alumina.
Boilers, one water-tube 100-hp. W. & W., one return tubular 100-hp. Casey-Hedges; mechanical stokers, McNaughton; pumps, 2-2,000,000 gal. ea. Platt, one centrifugal driven by elec. motor, 25-hp. G. E.; pumping to standpipe (1888), steel.
Pipe, 25 mi. 4 to 30-in. c. i.; hyd.260,hose con. 3-in. Columbian; valves, 173 r. & l. h. thd. Columbian; meters, 1900 Neptune and Pittsburgh; av. daily cons. 1,150,000 gal.; serv. con. 3260; ord. pres. 55 to 99 lb.
Rates: flat, 50c. mo.; meter, 20c. 1000 gal.

SANDERSVILLE, *2,641.
MUNICIPAL.
Supt., L. J. Porter.....Sandersville
Artesian wells, 2-235 & 310 ft. deep; ¼ mi. from center distribution; no purification.
Boilers, 3 return tubular, 2 100-hp. ea. & one 150-hp. Lombard; pumps, 3-250,000 gal. Deane; elec. motor, 20-hp. 2300 v. 3 ph. 60 cys. G. E.; pumping to standpipe, 250,000 gal.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 87; hose

con. 2½-in.; av. daily cons. 87,500 gal.; serv. con. 235; ord. pres. 40 to 45 lb., fire pres. 75 to 100 lb.

Rates: flat, min. 50c. mo.; meter, 25c. 1000 gal.

SAVANNAH, 65,064.

MUNICIPAL.

Mayor, R. J. DeVant.....Savannah
Ch. Engr., E. R. Conant..... "
Supt., J. P. Figg..... "

Artesian wells, 33 av. depth 400 ft.; reservoir, 300,000 gal.; no purification.

Boilers, 6, 125-hp. ea. Rouke, one 150-hp Schofield, 2 150-hp. ea. Lombard; pumps, 2-10,00 0,000 gal. Holly., 2-7,000,000 gal. Worth.; pumping direct and to standpipe, 1,000,000 gal.

Pipe, 85 mi. 4 to 42-in. c. i.; hyd. 750 Columbian, R. D. W. and Rensselaer; valves, 400 Fairbanks, R. D. W. and Chapman; meters, 241, various; av. daily cons. 9,700,000 gal.; serv. con. 10,000; ord. pres. 50 lb.

Rates: flat, according to property valuation; meter, 90c. 1000 cu. ft. max., 45c. min.

SHELLMAN, 985.

MUNICIPAL LIGHT & WATER PLANT.

Mayor, M. W. Cox.....Shellman
Supt., C. P. Payne..... "
Treas., F. C. Sears..... "

Boiler, 180-hp. Schofield; steam engine, 65-hp. Valley.

SPARKS, 842.

MUNICIPAL WATER & LIGHT PLANT.

Mayor, J. S. Sermons.....Sparks
Supt., E. R. Slade..... "

Boiler, 100-hp. Cole; steam engine, 75-hp. Ide.

SPARTA, 1,715.

MUNICIPAL.

Supt., T. R. Fluker.....Sparta
Cons. Engr., L. J. Wagner..... "

Wells; one mi. from center distribution.

Boilers, 2 return tubular 125-hp. ea. Cole; hand stoking; pumps, 2-750,000 gal. ea. Platt; air compressors, 2 Platt & Ingersoll-Rand; pumping to reservoir, 100,000 gal., standpipe (1911) steel and elevated tank, 80,000 gal. steel.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in.; valves, 24 r. h. thd.; meters, 235 Hersey; av. daily cons. 150,000 gal.; serv. con. 260; ord. pres. 65 lb., fire pres. 150 lb.

STATESBORO, 2,529.

MUNICIPAL.

Chm. Comrs., S. C. Groover....Statesboro
Supt., Daniel L. Gould..... "
Cons. Engrs., J. B. McCrary Co. "

Artesian wells.

Boilers, 2 hor. tubular 125-hp. Schofield; pumps, 2 duplex Platt; air compressors, 2 L-D-G and Ingersoll-Rand; pumping to standpipe (1904) steel, and reservoir, 69,000 gal.

Pipe, 5 mi. 4 to 12-in.; hyd. 50, hose con. 2-in. Columbian; valves, 10 r. h. thd.; meters 60 Pittsburgh, National and Neptune; av. daily cons. 100,000 gal.; serv. con. 400; ord. pres. 35 to 40 lb., fire pres. 75 to 100 lb.

Rates: flat, 75c. mo.; meter, 25c. 1000 gal. max., 15c. min.

SYLVANIA, 1,400.

MUNICIPAL.

Mayor, A. B. Lovett.....Sylvania
Supt., W. B. Glenn..... "
Ch. Engr. P'g. Sta., L. F. Glenn.. "

Wells, 2, 6 & 10-in. 345 & 386 ft. deep; ¼ mi. from center distribution; impounding reservoir, 100,000 gal.

Boilers, 2 tubular 100-hp. Cole; hand stoking; pumps, 2-792,000 gal. Platt; air compressor, driven by elec. motor, 22 kw. 2200 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1911), iron.

Hyd. 16, hose con. 3-in. Eureka; valves, 8 r. h. thd. Columbian; meters, 114 Keystone; av. daily cons. 60,000 gal.; serv. con. 235; ord. pres. 50 lb., fire pres. 125 to 200 lb.

SYLVESTER, 1,447.

MUNICIPAL LIGHT & WATER PLANT.

Mayor, A. H. Pinson.....Sylvester
Clerk, R. B. Pollard..... "
Supt., J. M. Love..... "
Pur. Agt., Jas. McGirt..... "

Boiler, 180-hp. Cole; steam engine, 285-hp. Platt.

TENNVILLE, 1,622.

MUNICIPAL WATER & LIGHT DEPT.

Mayor, H. M. Franklin.....Tennville
Supt., J. S. Stevens..... "

TALLAPOOSA, 2,117.

OWNED BY M. A. GREENE.

Supt., M. A. Greene.....Tallapoosa

River and springs, ½ & 1½ mi. from center distribution; impounding reservoir, 5-3,000,000 gal.; slow sand filter, 250,000 gal.; chemical, sulphate of alumina.

Boilers, 2 tubular 60-hp.; hand stoking; pumps, 2-750,000 gal. ea. Worth.; pumping to standpipe (1891) 131,000 gal., steel.

Pipe, 8½ mi. 4 to 12-in. c. i.; hyd. 66, hose con. 2½-in. Ludlow; valves, 30 Ludlow, meters, 42 various; av. daily cons. 250,000 gal.; serv. con.; 100; ord. pres. 40 lb.

THOMASTON, 1,645.

MUNICIPAL.

Supt., W. C. Hartman.....Thomaston

Potato Creek; 2 mi. from center distribution; impounding reservoir, 2,500,000 gal.; coagulating basin; mechanical filters, 500,-000 gal.; chemical, sulphate of alumina.

Boilers, 2 return tubular 125-hp. Cole; hand stoking; pumps, 2 steam, 3 elec. 2,880,000 gal. Platt; elec. motors, 2-30 & 15 kw. 2200 v. 3 ph. 60 cys. Ft. Wayne; pumping to elev. tank (1912) 75,000 gal., steel, and reservoir, 100,000 gal.

Pipe, 5½ mi. 4 to 12-in. c. i.; hyd. 44,

hose con. 2½-in. Columbian; valves, 31 r. h. thd. Crane; meters, 125 Pittsburgh; av. daily cons. 75,000 gal.; serv. con. 125; ord. pres. 45 to 50 lb., fire pres. 100 to 125 lb.

Rates; flat, none; meter, 25c. 1000 gal. max., 12c. min.

THOMASVILLE, 6,727.

MUNICIPAL.

Mayor, W. E. Beverly.....Thomasville
Chm. Comrs., M. W. Cooper.. "
Comr., W. B. Hambleton..... "
" P. D. Phillips..... "
Supt., D. R. Pringle..... "

Artesian well; ½ mi. from center distribution; impounding reservoir, 90,000 gal.; no purification.

Boilers, 4 hor. return tubular 100-hp. ea. Schofield; hand stoking; pumps, 2 steam duplex 432,000 and 720,000 gal. Platt, one centrifugal 1,000,000 gal. Knowles driven by elec. motor, 25-hp. 2200 v. 3 ph. 60 cys. West.; air compressors, 2 Ingersoll-Rand; pumping to standpipe (1888) iron.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 117, hose con. 2½-in. various; valves, 40 l. & r. h. thd. Crane; meters, 789 various; av. daily cons. 260,000 gal.; serv. con. 789; ord. pres. 30 to 40 lb., fire pres. 125 to 140 lb.

Rates; flat, none; meter, 18¾c. 1000 gal.

TIFTON, 2,381.

MUNICIPAL.

Chm. Comrs., W. W. Bryan.....Tifton
Supt., H. K. Dial..... "
Ch. Engr. P'g. Sta., T. E. Phillips... "

Well, 8-in. 500 ft. deep; near center distribution; impounding reservoir, 150,000 gal.

Boilers, 2 hor. return tubular 150-hp. Lombard; hand stoking; pumps, 1-1,440,000 gal. Deane, 1-2,300,000 F. M.; pumping direct.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 2½-in. R. D. W.; valves, 25 l. h. thd. R. D. W.; meters, 285 Pittsburgh, Thomson and Worth.; av. daily cons. 300,000 gal.; serv. con. 385; ord. pres. 43 to 45 lb., fire pres. 130 lb.

Rates; flat, $1.00 mo.; meter, 25c. 1000 gal. max., 22½c. min.

TOCCOA, 3,120.

MUNICIPAL.

Chm. Comrs., Thomas Spinkle.....Toccoa
Supt., W. C. Stephens..... "

Allen Creek; coagulating basin, 100,000 gal.; slow sand filter, 100,000 gal.; chemical, sulphate of alumina and hypochlorite of lime.

Pumps, 2-720,000 gal. ea. hydraulic.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 44, hose con. 3-in.; valves, 15 r. h. thd.; meters, 200 Hersey; av. daily cons. 750,000 gal.; serv. con. 250; ord. pres. 65 to 70 lb., fire pres. same.

Rates; flat, 90c. mo.; meter 15c. 1000 gal. max., 5c. min.

UNADILLA, 1,003.

MUNICIPAL.

Mayor, D. Bridges.....Unadilla
Chmn. Comrs., D. P. King..... "
Comr., S. A. Shepard..... "
Supt., W. T. Van Landingham.... "

Well, 10-in. 180 ft. deep; ¼ mi. from center distribution.

Boilers, 2 return tubular 125-hp. Cole; hand stoking; pumps, 2-750,000 gal. Platt; pumping to elev. tank, 100,000 gal. steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Columbian; valves, 17 l. h. opening Crane; meters, 50 Pittsburgh & National; av. daily cons. 50,000-gal.; serv. con. 200; ord. pres. 45 to 60 lb., fire pres. 60 to 125 lb.

Rates; meter, $1 mo., 25c. 1,000 gal. max., 10c. min.

VALDOSTA, 1,003.

MUNICIPAL.

Supt., D. S. Querterman.....Valdosta

Well, 8-in. 520 ft. deep; near center of distribution; impounding reservoir, 2-1,170,000 gal.

Boilers, 2 return tubular 125-hp. ea. Erie and W. & W.; hand stoking; pumps, 4-6,000,000 gal. Platt and Snow; air compressors, 2 Ingersoll-Rand; pumping direct.

Pipe, 24 mi. 4 to 12-in. c. i.; hyd. 116, hose con. 2½-in. R. D. W. and Columbian; valves, 86 l. h. opening, various; meters, 872 National and Thomson; av. daily cons. 360,000 gal.; serv. con. 1100; ord. pres. 50 to 60 lb., fire pres. 90 to 115 lb.

Rates; flat, $8 year; meter, min. charge $2 quarterly, 20c. 1000 gal. max., 12½c. min.

VIDALIA, 1,176.

MUNICIPAL ELECTRIC LIGHT & WATER WORKS.

Comr., W. O. Donovan.....Vidalia
" J. W. Poe..... "
" A. S. McGueen..... "
Supt., A. W. Railey..... "

Well, 10-in. 400 ft. deep; ¾ mi. from center business section; no purification.

Boilers, 2 water-tube 100 & 150-hp. 125 lb. Schofield & Cole; 1-24,000,000 gal. hor. tri. exp. d. act. Platt; air compressors, 2 400 cu. ft. Ingersoll-Rand; steam engine, 200-hp. Corliss; pumping to reservoir, 75,000 gal. & standpipe (1902) 100,000 gal. concrete & iron, J .B. McCrary Co.

Pipe, 8 mi. 6 to 8-in. c. i.; hyd. 40, hose con. 2½-in. valves, 12 r. h. opening Platt; meters, 500 Pittsburgh; av. daily cons. 150,000 gal. 90%; serv. con. 520; ord. pres. 60 to 100 lb., fire pres. 80 to 100 lb.

Rates; $1 mo. 5,000 gal.; 20c. 1,000 gal.

VIENNA, 1,564.

MUNICIPAL.

Mayor, J. W. Lytle.....Valdosta
Supt., H. D. Sturdivant..... "

Artesian wells, 2, 6-in. 300 ft. deep; near center distribution.

Boilers, 2 return tubular 115-hp. Schofield; hand stoking; pumps, 2-720,000 gal. Platt and Worth.; pumping to reservoir, 90,000 gal. and standpipe (1907), steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 2½-in. Columbian; valves, 40 l. h. thd. meters, 200 Worth.; av. daily cons. 75,000 gal.; serv. con. 220; ord. pres. 60 lb., fire pres. same.

Rates: meter, min. charge 75c., 30c. 1000 gal. max., 15c. min.

WASHINGTON, 3,065.

MUNICIPAL. Public Works Dept.

Mayor, L. D. Faver.....Washington
Supt., F. M. Drinkard..... "

WAYCROSS, 14,485.

MUNICIPAL.

Chm. Comrs., Dr. J. H. Latimer..Waycross
Comr., A. S. Norton..... "
" W. W. Sharpe, Jr..... "
Supt., B. D. Ferni..... "
Ch. Engr. P'g. Sta., John Beaton "

Artesian wells, 3, 8 to 12-in. 700 ft. deep; at center distribution; impounding reservoir, 100,000 gal.; no purification.

Boilers, 2, 150-hp. ea., 1, 200-hp.; hand stoking; pumps, 2-50,00,000 gal. McGowan; pumping to standpipe (1887), iron,

Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 250, hose con. 3½ mi. R. D. W. and Columbian; valves, 110 r. & l. h. thd. R. D. W. and Columbian; meters, 150 Pittsburgh; av. daily cons. 2,000,000 gal.; serv. con. 2500; ord. pres. 30 to 40 lb., fire pres. 110 to 300 lb.

Rates: flat, 50c. mo.; meter, 22c. 1000 gal. max., 10c. min.

WAYNESBORO, 2,729.

MUNICIPAL.

Supt., J. C. Andrews.....Waynesboro

Artesian well, 310 ft. deep; ½ mi. from center distribution.

Boilers, 2 tubular 150-hp. Lombard; hand-stoking; pumps, 2-1,080,000 gal. Platt; air compressor, Platt; pumping to elevated tank, 100,000 gal. steel.

Pipe, 5½ mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in.; valves, 15 r. h. thd. Crane; meters, 285 various; av. daily cons. 125,000 gal.; serv. con. 3100; ord. pres. 55 to 60 lb., fire pres. 55 to 140 lb.

Rates: flat, $1.00 mo.; meter, 30c. 1000 gal. max., 25c. min.

WEST POINT, 1,906.

MUNICIPAL.

Supt., H. L. Hill.....West Point
Ch. Engr. P'g. Sta., J. H. Miller. " "

Creek; one mi. from center distribution; coagulating basin, 3,000,000 gal.; slow sand filters, 1,440,000 gal.; chemicals, sulphate of alumina and hypochlorite of lime.

Boilers, 2 return tubular 300-hp. Lombard; hand stoking; pumps, 2-1,440,000 gal. Worth.; elec. motors, 1-100 & 25-hp. 2300 v. 3 ph. 60 cys. Worth. and Platt; pumping to reservoir, 100,000 gal.

Pipe, 28 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in.; valves, 50 r. & l. h. thd.; meters, 800 Pittsburgh, Union and Hersey; av. daily cons. 750,000 gal.; serv. con. 1000; ord. pres. 60 lb., fire pres. same.

WILLACOOCHEE, 960.

MUNICIPAL WATER & LIGHT DEPT.

Mayor, W. H. Duncan.....Willacoochee
Supt., J. E. Gaskins..... "

WINDER, 2,443.

MUNICIPAL WATER & LIGHT DEPT.

Mayor, C. M. Ferguson.....Winder
Supt., C. C. McGowan..... "
Chmn. Comrs., J. T. Strange..... "
Clerk, H. N. Rainey, Jr..... "

Boiler, 260-hp. Cole; steam engine, 130-hp. Murray.

WRIGHTSVILLE, 1,389.

MUNICIPAL WATER & LIGHT DEPT.

Mayor, T. I. Harris.....Wrightsville
Supt., J. N. Harrison..... "

HAWAII

HONOLULU, 52,183.

MUNICIPAL.

Gen. Mgr., W. A. Wall.....Honolulu
Cons. Engr., F. G. Kirchhoff..... "
Engr. P'g Sta., W. H. Bromley... "
Chemist, T. F. Sedgewick..... "

Impounding reservoir, 4-663,800 gal. & artesian wells, 14 10 & 12-in. 245 to 600 ft. deep; chemicals, liquid chlorine & copper sulphate.

Boilers, 4 water-tube & 3 return tubular 150 to 250-hp. one B. & W., 3 Sterling; oil fuel; pumps, 1-3,000,000 gal. steam Allis, 1-4,000,000 gal. Blake, 1-5,000,000 gal. Risdon, 1-1,000,000 gal. driven by gasoline engine, 50-hp. Standard; elec. motors, one 38-hp. & 2 75-hp. 220 v. 3 ph. 60 cys. Westg.; pumping direct & to reservoirs, 15-8,600,000 gal. & tanks, 3-20,000 gal. ea. wood.

Pipe, 94 mi. 4 to 30-in. c. i. galv. i. & wood; hyd. 465, hose con. 2½-in. Eddy, Chapman & Honolulu; valves, 1051 r. h. thd. Crane; meter, 1000 Pittsburgh, Neptune & American; av. daily cons. 13,000 000 gal.; serv. con. 6500; ord. pres. 15 to 128 lb., fire pres. same.

Rates; flat, 1c. sq. ft.; meter, 6.5c. 1000 gal.

IDAHO

AMERICAN FALLS, 953.

AMERICAN FALLS REALTY & WATERWORKS CO., LTD.
Pres., Fred G. Caldwell.....Pocatello
V. Pres. & Gen. Mgr.,
L. L. Evans, Jr.....American Falls
Cons. Engr., J. P. Congdon.. " "

Springs; 6 mi. from center business section; gravity distribution from reservoir, 80,000 gal.

Pipe, 9 mi. 4 to 10-in.; hyd. 9, hose con. 2½-in. Ludlow; valves, 2 r. h. opening; serv. con. 100; ord. pres. 80 lb.

Rates; meter, $1.50 mo.

PHILBUCH & GREENWOOD.
Supt., R. B. Greenwood....American Falls

Springs.

Pumps, 2-576,000 & 1-160,000 gal. Platt belted to elec. motors, 2080 v. 3 ph. 60 cys. Stanley; pumping to standpipe (1907) steel.

Pipe, 4 mi. 4 to 12-in. wood; hyd. 12, hose con. 3-in. Long; valves, 15 r. h. thd. Wash.; meters, none; av. daily cons. 800,000 gal.; serv. con. 209; ord. pres. 60, fire pres. same.

Rates: flat, $2.25 mo.

BELLEVUE, 702.

MUNICIPAL.
Supt., Francis Jones.....Bellevue

BLACKFOOT, 2,2002

BLACKFOOT WATER CO.
Pres., E. A. Johnson.....Blackfoot
V. Pres., Mary Johnson..... "
Sec.-Treas., C. F. Hilliard..... "

Wells, 4 6 to 12-in. 130 ft. deep; ¾ mi. from center business section; no purification.

Pumps, 1-432,000 gal. triplex Goulds 1912, 3-576,000 gal. deep well American 1908, belted to elec. motors, 2 20-hp. 3 ph. Westg. & G. E. 1907 & 1913; gasoline engine, 40-hp. Witty 1911; purchase energy from South Idaho Water Power Co.; pumping to elev. tank (1908) 65,000 gal. wood.

Pipe, 2 to 7-in. galv. i.; hyd. 31, hose con. 2½-in., valves, 75 r. h. opening Crane; av. daily cons. 300,000 gal. 75%; serv. con. 450;

Rates; flat, $2 mo. including bath & closet.

BOISE, 17,358.

CAPITAL WATER CO. Office, 307 Overland Bldg.
Pres. & Gen. Mgr., J. L. Niday.....Boise
Sec.-Treas., Chas. E. Dawson..... "

Boise River; 5 mi. from center business section; no purification.

Distribution by canal to city; pipe, 21 mi. 6 to 18-in. wood; hyd. 60, hose con 4-in.; valves, 108 r. h. opening; serv. con. 1,045; ord. pres. 2 to 40 lb., fire pres. 8 to 40 ft.

Rates; flat, $10 year.

BONNERS FERRY, 1,071.

BONNER WATER & LIGHT CO.
Owner, A. H. Featherstone..Bonners Ferry
Supt., H. A. Gale..... " "

Kootenai River; ½ mi. from center distribution; no purification.

Boilers, none; pump, 1,440,000 B. J. d. con. to elec. motor, 100-hp. 2200 v. 3 ph. 60 cys. F. M.; pumping direct, to reservoir, 100,000 gal. and elevated tanks, 2-100,000 gal. wood.

Pipe, 3 mi. 4 to 12-in. wood; av. daily cons. 250,000 gal.; serv. con. 250; ord. pres. 80 to 85 lb., fire pres. 85 to 95 lb.

Rates: flat, min. $1.50 mo.

BUHL, 639.

MUNICIPAL.
Supt., Charles Coker.....Buhl
Cons. Engr., R. T. Haggard..... "

Canal & impounding reservoir, 150,000 gal.

Gravity distribution; pipe, 3 mi.; hyd. 21 National & Rensselaer; av. daily cons. 130,000 gal.; serv. con. 280; ord. pres. 65 lb., fire pres. same.

BURLEY, 900.

MUNICIPAL.
Mayor, J. E. Miller.....Burley
Town Clerk, Edward C. Davis..... "
Supt., C. M. Robertson..... "
Cons. Engr., L. C. Kelsey..... "

Wells, 52 ft. deep; ¼ mi. from center distribution.

Pumping to elevated tank (1912) 100,000 gal., iron.

Pipe, 6 mi. 4 to 12-in. wood; hyd. 55, hose con. 2½-in.; valves, 60 r. h. thd.; meters, 300 Neptune & Pittsburgh; av. daily cons. 1,500,000 gal.; serv. con. 300; ord. pres. 50 to 55 lb., fire pres. 60 lb.

CALDWELL, 3,543.

MUNICIPAL.
Chmn. Comrs., Fred Harrington...Caldwell
Supt., Swain Beaty..... "

Artesian wells, 6 2 to 8-in. 132 to 222 ft. deep; ¼ to ½ mi. from center business section.

Pumps, 1-288,000 gal. hor. B. J. 1914, 1-504,000 gal. B. J. 1908, d. con. to elec. motors, 2 a. c. 15 & 30-hp. 2,000 & 2,200 v. 60 cys. Westg. 1914 & F. M. 1908; pumping to elev. tank, 50,000 gal. steel.

Pipe, 13 mi. 4 to 12-in. steel & wood; hyd. 59, hose con. 2½-in. Ludlow & Rensselaer; meters, 660 Neptune & Pittsburgh; av. daily cons. 232,000 gal.; serv. con. 675; ord. pres. 40 lb., fire pres. 70 lb.

Rates; meter, $1 mo. 666 ft.

COEUR d'ALENE, 7,291.

CONSUMERS' CO., LTD.
Supt., L. R. McKinney.....Coeur d'Alene

COTTONWOOD, 555.

COTTONWOOD WATER & LIGHT CO., LTD.

Pres., J. W. Turner.....Cottonwood
V. Pres., Gen. Mgr. & Supt., W. M. Schiller..... "
Sec., A. L. Creelman..... "
Treas., G. F. Simon..... "

Impounding reservoirs, 2-1,320,000 gal., Cottonwood Creek & well, 10-in. 300 ft. deep; settling basin, 1,000,000 gal.

Pump, 1-86,400 gal. vert. simple c. & f. wh. F. M. 1910; gasoline engine, 10-hp. F. M. 1910; gravity distribution from reservoir 1-320,000 gal.; pipe, 5 mi. 8-in. riveted steel; hyd. 18, hose con. 2½-in. Union; valves, 20 l. h. opening Crane; meters, 20 Keystone; av. daily cons. 43,000 gal.; serv. con. 120; ord. pres. 82 lb., fire pres. same.

Rates; flat, $1.50 mo., bath 25c., closet 25c.; meter, $1 mo., 75c. 1,000 gal. max., 25c. min.

CULDESAC, 436.

MUNICIPAL.

Supt., C. M. Hager.....Culdesac
Town Clerk, J. A. Douglas..... "

Lapwai Creek; one mi. from center distribution; no purification.

Gravity distribution.

Pipe, 2 mi. 4 to 12-in.; hyd. 12, hose con. 3-in.; meters, none; ord. pres. 35 to 45 lb., fire pres. 45 to 90 lb.

Rates: flat, $1.00 mo. min.

DIETRICH, 200.

RICHFIELD PUBLIC SERVICE CO. Office, Richfield. Also own a plant at Richfield.

Pres., Geo. R. Schwaner.....Richfield
V. Pres., W. LeR. Seward.....Gooding
Sec., A. L. Fletcher.....Richfield
Treas., R. E. Michelwait..... "
Gen. Mgr., M. R. Kays..... "
Pur. Agt., H. E. Essley..... "
Supt., D. L. Grier..... "

Little Wood River & wells, 2 10-in. 500 ft. deep.

Boiler, 40-hp.; pumps, 1-216,000 gal. vert. Keystone 1909, 1-72,000 gal. vert. single Keystone 1909 belted to steam engines; pumping to standpipe (1909) 40,000 gal.

Hyd. 6, hose con. 2-in.

Rates; meter, $1.50 mo., bath 50c., closet 50c.

DOWNEY, 250.

DOWNEY WATER COMPANY.

Pres., C. S. Davis.....Downey
Sec. Treas., W. Rodman Peabody.. "
Supt. & Asst. Treas., John Ware... "

Springs; 6 mi. from center distribution; no purification.

Gravity distribution from reservoir, 13,500 gal.

Pipe, 5.35 mi. 4 to 12-in. wood; hyd. 5, hose con. 2 & 2½-in. Kupferle; valves, 29 Crane; meters, 63 Buffalo; av. daily cons. 13,000; serv. con. 79; ord. pres. 80 lb., fire pres. same.

Rates: meter, min. charge $1.00 mo., 25c. 1000 gal. max., 15c. min.

ELK RIVER, 350.

MUNICIPAL.

Chmn. Comrs., A. Bloom.....Elk River
Comr., C. D. Heath..... " "
" H. Tobiason..... " "
" R. K. Wheeler..... " "
Des. Engr., L. L. Broughton..... " "

Impounding reservoir, 100,000 gal. & Elk River; ½ mi. from center business section.

Boiler, 115 lb. Potlatch 1913; pumps, 2-2,880,000 gal. hor. simple d. act. F. M. 1910; pumping direct.

Pipe, 2 mi. 4 to 10-in. wood; hyd. 14, hose con. 2½-in. Ludlow; valves, 10 l. h. opening, Pacific Coast Pipe Co.; meter, one Neptune; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 87 to 110 lb., fire pres. 100 to 150 lb.

Rates; flat, $1.25 mo.; bath 25c. closet 25c.; meter, $2 mo. 1,000 gal.

EMMETT, 1,351.

MUNICIPAL.

Chmn. Comrs., A. R. White.....Emmett
Comr., C. B. Knox..... "
" D. M. Stokesbury..... "
Supt., K. Landers..... "

Impounding reservoir, 1-4,000 gal. & well, 6-in. 370 ft. deep; near center business section; no purification.

Pumps, 1-648,000 gal. hor. Westg. driven by elec. motors, 50-hp.; pumping to elev. tank (1908) 75,000 gal. steel, Forbes Bridge & Engine Co.

Pipe, 4 mi. 4 to 8-in. wood; hyd. 20, hose con. 2½-in. Iowa; valves, 16 r. h. opening Crane; meters, 109 Neptune; av. daily cons. 140,000 gal. 75%; serv. con. 109.

Rates; meter, $1 3,000 gal.; 33¼c. 1,000 gal. max., 15c. min.

FERDINAND, 300.

MUNICIPAL.

Supt., F. M. Bieker.....Ferdinand

FILER, 214.

MUNICIPAL.

Supt., Geo. F. Allen.....Filer

Artesian well; ¾ mi. from center distribution; pump driven by elec. motor, 30-hp. F. M. Av. daily cons. 1600 gal.; serv. con. 80; ord.

Rates: flat, $1.50 mo.

GENESEE, 742.

MUNICIPAL.

Supt., C. F. Burr.....Genesee

Wells; 2 12-in. 104 ft. deep; near center of distribution; impounding reservoir, 250,000 gal.; no purification.

Pump, triplex 130,000 gal. Gould driven by elec. motor, 20-hp. Westg.; pumping to reservoir, 250,000 gal.

Pipe, 1696 ft. 4 to 12-in. steel; hyd. 37, hose con. 2½-in. Ludlow; meters, 20 Nep-

tune; av. daily cons. 28,000 gal.; serv. con. 196; ord. pres. 89 lb., fire pres. same.

Rates: flat, min. $1.00 mo.; meters, min. charge $1.00 mo., 25c. 1000 gal. max., 5c. min.

HAGERMAN, 430.

HAGERMAN WATER SYSTEM. Held in trust for municipality to be turned over to it when incorporated.

Trustee, J. H. Jensen.....Hagerman
" H. D. Sweetland..... "
" S. W. Struble..... "

Spring; 1¾ mi. from center distribution; no purification.

Gravity distribution from reservoir, 6x 8x18 ft.

Pipe, 2 mi. 4 to 12-in. wood stave; hyd. 6, hose con. 2-in.; av. daily cons. 125,000 gal.; serv. con. 60; ord. pres. 30 to 35 lb.

Rates: flat, $1.50 mo.

HAILEY, 1,231.

IDAHO STATE LIFE INSURANCE CO.

Gen. Mgr., Edward S. Chadwick....Hailey
Local Mgr. & Supt., Carl See..... "
Cons. Engr., F. C. Horne..... "

Springs; 5½ mi. from center distribution; no purification.

Gravity distribution.

Pipe, 11 mi. 4 to 12-in. wood; hyd. 19, hose con. 2½-in. part Chapman; meters, none; serv. con. 250; ord. pres. 55 lb., fire pres. same.

HARRISON, 932.

HARRISON WATERWORKS COMPANY. (Privately owned).

Supt., W. B. Hazar.....Harrison
Engr. P'g Sta., Chas. F. Keely..... "

Impounding reservoirs, 2-100,000 gal. & Coeur d'Alene Lale; ¼ mi. from center business section.

Gasoline engine, 25-hp. F. M. 1914; pumping to elev. tanks (1902) 100,000 gal. wood.

Pipe, 3 mi. 2 to 8-in. wood; hyd. 16, hose con. 2½-in.; meters, 20; av. daily cons. 80,000 gal.; serv. con. 150; ord. pres. 90 lb., fire pres. 100 lb.

Rates; flat, $1.75 mo., bath 25c., closet 26c.; meter, 30c. 1,000 gal.

HOLLISTER, 1,231.

HOLLISTER WATER WORKS CO., LTD.

Gen. Mgr., D. C. McWalters.....Hollister
Supt., J. R. Muller..... "

Artesian well, 10-in. 800 ft. deep; impounding reservoir, 50,000 gal. no purification.

Gravity distribution.

Pipe, 5 mi. 4 to 12-in. wood; hyd. 4, hose con. 2½-in. Ludlow; valves, 8 r. h. thd. Ludlow; meters, 65 Neptune; av. daily cons. 50,000 gal.; serv. con. 65; ord. pres. 25 to 40 lb., fire pres. same.

Rates: meter, min. charge $2.00 1500 gal.

JEROME, 970.

JEROME WATERWORKS COMPANY, LTD. (Privately owned).

Pres. & Gen. Mgr., Wm. T. Wallace.....Twin Falls
Treas., I. E. Joslyn..... " "
Pur. Agt., J. H. Seaver..... " "
Supt., Jos. T. Krivanek..... Jerome
Engr. P'g Sta., Fred Williams.... "

Impounding reservoirs, 2-100,000 gal. & wells, 2 8 & 12-in. 365 to 400 ft. deep; ½ mi. from center business section.

Pumps, 1-50,000 gal. vert. single Cook 1908 belted to elec. motor, 15-hp. 220 v. 3 ph. 60 cys. Westg. 1908, 1-144,000 gal. vert. duplex Downie 1909 belted to elec. motor, 30-hp. 220 v. 3 ph. 60 cys. Westg. 1909; purchase energy from Great Shoshone & Twin Falls Water Power Co.; pumping to standpipe (1909) 50,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 7 mi. 1 to 8-in. wood; hyd. 16, hose con. 2-in. Ludlow; valves, 23 r. h. opening Ludlow; meters, 275 Neptune; av. daily cons. 40,000 gal. 50%; serv. con. 276; ord. pres. 50 to 75 lb., fire pres. same.

Rates; meter, $2 mo. 2,500 gal., 60c. 1,000 gal. max., 25c. min.

KAMIAH, 324.

MUNICIPAL.

Chmn. Comrs., E. C. Schulz.....Kamiah
Comr., Geo. Waterman..... "
" James Dempsey..... "
" Charles Sassaman..... "
" Ross Spikes..... "
Supt., T. H. Rebbug..... "

Springs& impounding reservoirs, 1-20,000 gal., 1-100,000 gal.

Pumps, 1-70,000 gal. F. M. driven by gasoline engine, 5-hp. F. M.; purchase energy from Grayville Elec. Lt. & Pwr. Co.; pumping to reservoir.

Pipe, 2 mi. 4 to 12-in. kalomein & c. i.; hyd. 15, hose con. 2½-in.; meters, none; serv. con. 100; ord. pres. 35 lb., fire pres. 75 lb.

Rates; flat, $1.50 mo.

KELLOGG, 1,273.

BUNKER HILL & SULLIVAN M. & C. Co. Supplies Wardner

Pres., F. W. Bradley.....Kellogg
Supt. & Mgr. Water Dept.,..... "
W. C. Clark..... "

Milo Creek & wells, 4 4 & 5-in. 38 ft. deep; no purification.

Pumps, 4-648,000 gal. Aldrich belted to elec. motor, 100 kw. 2,300 v. 3 ph. 60 cys. G. E.

Hyd. 48, hose con. 2½-in. Rensselaer; meters, 52 Neptune.

Rates; flat, $2 mo.; meter, 20c. 1000 gal. max., 7c. min.

KOOSKIA, 301.

MUNICIPAL.

Clearwater River; ½ mi. from center dis-

tribution; impounding reservoir, 50,000 gal.; no purification.

Pump, F. M. d. con. to elec. motor, G. E.; pumping to reservoir, above.

Hyd. 15, hose con. 2-in.; meters, one Pittsburgh,. av. daily cons. 15,000 gal.; serv. con. 50; ord. pres. 70 lb., fire pres. same.

LEWISTON, 6,043.

MUNICIPAL.

Comr., J. D. Jacobs.....Lewiston
Supt., E. G. Wagner..... "
Ch. Engr. P'g. Sta.,
E. M. Harrington..... "

Clearwater River; 2 mi. from center distribution; settling wells, 10; chemicals, none.

Boilers, one hor. tubular 150-hp.; hand stoking; pumps, 5-10,000,000 gal. Knowles, Worth., Deane, Goulds & Platt; elec. motors Westg., one 225-hp. 2200 v. 3 ph. 60 cys. G. E.; pumping to reservoirs, 2-1,200,000 gal. ea.

Pipe, 30 mi. 4 to 12-in. steel and wood; hyd. 109, hose con. 2½-in. Rensselaer; valves, 280 r. h. thd. Crane; meters, 761 various; av. daily cons. 2,500,000 gal.; serv. con. 1549; ord. pres. 85 to 100 lb., fire pres. 85 to 147 lb.

Rates: flat, $1.00 mo., bath 25c., closet 25c.; meter, min. charge $1.29 mo. 700 cu. ft. max., 6c. min.

MACKAY, 638.

MACKAY IMPROVEMENT CO.

Pres. & Gen. Mgr., H. W. Weiler..Mackay
V. Pres., Milton Russell..... "
Sec. & Treas., John W. Fowler.... "

Springs; 2 mi. from center distribution.

Gravity distribution from reservoirs, 4-200,000 gal.; pipe, 4.3 mi. 4 to 12-in.; hyd. 20; serv. con. 123; ord. pres. 95 to 125 ob., fire pres. same.

Rates; flat, $2 mo. including bath & closet.

MALAD CITY, 1.303.

GRIFF DAVIS WATER CO.

Springs, 4; hyd. 6, hose con. 2½-in.; meters, none; av. daily cons. 200,000 gal.

Rates; flat, $1.25 mo.

MOSCOW, 3,670.

MUNICIPAL.

Mayor, J. N. Clarke.....Moscow
Comr., Bert Martin..... "
" Ray Carter..... "

Wells, two, 100 & 250 ft. deep; near center distribution; no purification.

Pumps, 1-460,000 F. M., 1-384.000 gal. Ames, 1-360,000 gal. Platt; gasoline engine, 50-hp. F. M.; elec. motors, one 75-hp. 2080 v. 3 ph. 60 cys. F. M., one 20-hp. 220 v. 3 ph. 60 cys. G. E.; pumping direct and to standpipe (1894) 90,000 gal., steel.

Pipe, 14 mi. 4 to 12-in. steel; hyd. 93, hose con. 2½-in Rensselaer & Kupferle; valves, 70 r. n. thd. crane; meters, 8900 Pittsburgh & National; av. daily cons. 477,500, gal. serv. con. 900; ord. pres. 80 to 90 lb., fire pres. same.

MOUNTAIN HOME, 1,411.

MUNICIPAL.

Supt. & Engr. P'g Sta.,
W. F. Ross.....Mountain Home
Des. Engr.,
Edmund M. Blake...Hyde Park, Mass.
Village Clerk,
O. E. Nowell.....Mountain Home

Wells, six 8-in. 30 ft. deep; ¾ mi. from center business section; no purification.

Pumps, 2-250,000 gal. vert. triplex Platt 1911, geared to elec. motors, 2 a. c. 25-hp. 220 v. 3 ph. 60 cys. G. E. 1911; pumping direct & to elev. tank (1911) 60,000 gal. steel, Burke.

Pipe, 5.86 mi. 4 to 8-in. wood; hyd. 42, hose con. 2½-in. Ludlow; valves, 20 r. h. opening Crane; meters, 150 National; av. daily cons. 45,000 gal., serv. con. 150; ord. pres. 40 to 52 lb., fire pres. 80 to 100 lb.

Rates; meter, $1.50 mo. 10,000 gal.; 40c. 10,000 gal. max., 15c. min.

MULLAN, 1,667.

MUNICIPAL.

Supt., Henry Nyberg.....Mullan
City Engr., Ralf Jameson..... "

MURRAY, 400.

ADAM AULBACH, Owner.

Supt., Adam Aulbach.....Murray

Mountain streams; ¾ mi. from center distribution; no purification.

Gravity distribution from ranks, 6-100,-000 gal. wood.

Serv. con. 40; ord. pres. 80 lb., fire pres. same.

NAMPA, 4,205.

MUNICIPAL.

Mayor, H. A. Partridge.....Nampa
Chmn. Comrs.,
E. E. Smallwood..... "
Supt., A. McKechnie..... "
Cons. Engr., A. McKechnie..... "

Wells, two 6-in. 110 to 162½ ft. deep; near center distribution; no purification.

Boilers, one hor. 50-hp. Kewanee; hand stoking; pumps, one Deane, one steam Blake belted to elec. motors, 75 & 100-hp. 2200 v. 3 ph. 60 cys. Westg.; air compressor, one L-D-G; pumping to elev. tank, 75,000 gal.

Pipe, 7.4 mi. c. i.; hyd. 67, hose con. 2½-in. Rensselaer; valves, 75 r. h. opening various; meters, 764 various; av. daily cons. 181,906; ord. pres. 45 to 60 lb., fire pres. same.

Rates; meter, 50c. 100 cu. ft. max., 12c. min.

PAYETTE, 1,948.

MUNICIPAL.

Chmn. Comrs., S. A. Gorham.....Payette
Comr., L. E. Peterson..... "
" Chas. M. Smith..... "
Supt., E. A. Chany..... "

City Engr., W. C. Sturdevant.....Payette
Payette River; one mi. from center business section.

Pumps, 1-576,000 gal. vert. triplex Goulds 1905, 1-576,000 gal. B. J. 1908 belted to elec. motors, 2 20 & 50-hp. 3 ph. 60 cys. Westg. 1914; water- turbines, 2 60 & 120-hp. Leffel; purchase energy from Idaho-Oregon Light & Power Co.; pumping to reservoir, 400,000 gal.

Pipe, 8.5 mi. 4 to 8-in. wood; hyd. 48, hose con. 2½-in. Rensselaer; valves, 54 r. h. opening Crane; meters, 300 Pittsburgh; av. daily cons. 167,000 gal.; serv. con. 300; ord. pres. 65 lb., fire pres. same.

Rates; meter, $1 mo. 5,000 gal.; 10c. 1,000 gal. max., 5c. min.

POCATELLO, 9,110.
MUNICIPAL.
Supt., Geo. Winters.....Pocatello

REXBURG, 1,893.
MUNICIPAL.
Supt., P. O. Thompson.....Rexburg
Wells, 2, 7-in. 80 ft. deep; ¾ mi. from center distribution; no purification.

Pump, 216,000 gal. Goulds driven by elec. motor, 60 cys. Allis. C.; elec. energy from Utah Power & Light Co.; pumping direct and to reservoir, 175,000 gal.

Pipe, 3 mi. 4 to 12-in kalamein; hyd. 27, hose con. 2½-in. R. D. W.; valves, 60 r. h. thd. Crane; meters, none; av. daily cons. 150,000 gal.; serv. con. 412; ord. pres. 70 lb., fire pres. same.

RICHFIELD, 500.
RICHFIELD PUBLIC SERVICE CO. Also owns a plant at Dietrich.
Pres., Geo. R. Schwaner.....Richfield
V. Pres., W. LeR. Seward.....Gooding
Sec., A. L. Fletcher.....Richfield
Treas., R. E. Michelwait..... "
Gen. Mgr., M. R. Kays..... "
Pur. Agt., H. E. Essley..... "
Supt., D. L. Grier..... "
Little Wood River & wells, 2 10-in. 500 ft. deep.

Boiler, 80-hp.; pumps, 1-216,000 gal. vert. double act. Keystone Driller 1913, 1-552,-000 gal. vert. triplex De La Vergne 1909; gasoline engine, 35-hp. De La Vergne 1909; pumping to standpipe (1909) 60,000 gal.
Hyd. 14, hose con. 2-in.

Rates; flat, $1.50 mo., bath 50c., closet 50c.

ST. ANTHONY, 1,238.
UTAH POWER & LIGHT CO.
Supt., W. C. Cates.....Idaho Falls

SALMON, 1,434.
MUNICIPAL.
Comrs., Harry Pierce.....Salmon
" C. H. Davenport..... "
" J. A. Turnbull..... "
Supt. & Engr. P'g. Sta.,
F. C. Miller..... "
Cons. Engr., Jas. W. Coples..... "

Mountain stream; 2 mi. from center distribution; no purification.

Gravity distribution from reservoir, 170,-000 gal.

Pipe, 6 mi. 4 to 12-in.; hyd. 28, hose con. 2½-in. Kupferle & Ludlow; valves, 53 r. h. thd. Crane; meters, 12 Niagara; av. daily cons. 180,000 gal.; serv. con. 302; ord. pres. 40 to 145 lb., fire pres. 100 to 160 lb.

SAND POINT, 2,993.
SAND POINT WATER CO.
Pres., G. L. Drumheller.....Sand Point
Supt., M. Henderson..... " "
Sand Creek; 4 mi. from center distribution; no purification.

Gravity distribution from reservoir, 112,-500 gal.

Pipe, 29 mi. 4 to 8-in. wood; hyd. Wash.; valves, 101 r. h. thd.; meters, about 25; serv. con. 881; ord. pres. 50 to 60 lb., fire pres. 90 to 100 lb.

Rates: flat, $1.50 mo., bath 25c., closet 25c.; meter, min. charge $2.00 mo., 40c. 1000 gal. max., 15c. min.

SHOSHONE, 1,155.
MUNICIPAL.
Supt., J. R. Miller.....Shoshone
Little Mood river; ¼ mi. from center distribution; coagulating basin, 35x75x12 ft.; mechanical filters, 500,000 gal.; chemical, sulphate of alumina.

Pumps, 2-720,000 gal. F. M. belt driven from elec. motors, 30 & 40-hp. 220 v. 3 ph. 60 cys. Westg.; pumping direct and to elevated tank (1905) 50,000 gal. steel.

Pipe, 4½ mi. 4 to 12-in. wood; hyd. 14, hose con. 2½-in.; valves, 16 r. h. thd.; meters, none; av. daily cons. 300,000 gal.; serv. con. 250; ord. pres. 35 lb., fire pres. 35 to 60 lb.

Rates: flat, $2.50 mo.

SILVER CITY, 400.
SILVER CITY WATER CO.
Owner, O. D. Brumbaugh.....Silver City
Springs; ½ mi. from center distribution; gravity distribution.

SPIRIT LAKE, 907.
SPIRIT LAKE LAND CO.
Pres., F. A. Blackwell.....Spirit Lake
V. Pres., R. F. Blackwell..... " "
Sec., H. R. Schneker..... " "
Treas., G. F. Hagenbuch..... " "
Supt., G. C. Sutton..... " "
Spirit Lake; one mi. from center business section.

Pumps, 1-720,000 gal. hor. duplex F. M. 1907, 1-1,080,000 gal. hor. Jeanesville 1910 belted to elec. motors, 2 a. c. 75 & 50-hp. 2,200 v. 3 ph. 60 cys. Westg. 1910 & F. M. 1907; gasoline engine, 60-hp. F. M. 1907; purchase energy from Panhandle Lumber Co., Ltd.; pumping to elev. tank (1907) 100,000 gal. wood.

Pipe, 7 mi. 4 to 12-in. wood; hyd. 21, hose con. 2½-in. Ludlow; valves, 41 l. h.

opening Crane; meters, 120 Neptune; av. daily cons. 495,000 gal. 50; serv. con. 374; ord. pres. 40 to 95 lb., fire pres. 40 to 45 lb.

Rates; meter, $1.75 mo. 3,000 gal., 35c. 1,000 gal. max., 10c. min.

TWIN FALLS, 5,258.

TWIN FALLS WATER WORKS CO., Ltd.
Pres., E. B. Critchlon.....Twin Falls
Treas., F. B. Critchlon..... " "
Sec., W. J. Barrett..... " "
Supt., Willard Wyatt..... " "

Buy water from Twin Falls Canal Company; 2x mi. from center distribution; slow sand filters, 3, 29x59 ft. ea.; chemicals, none.

Gravity distribution from reservoir, 7,000,000 gal.; standpipe (1908) 150,000 gal., steel.

Pipe, 17 mi. 4 to 30-in. wood; hyd. 37, hose con. 2-in. ;valves, 170 r. h. thd. Crane; meters, 3 Neptune; av. daily cons. 3,500,000 gal.; serv. con. 1353; ord. pres. 50 to 75 lb., fire pres. same.

WALLACE, 3,000.

NORTHWEST LIGHT & WATER COMPANY. Office, 915 Paulsen Bldg., Spokane, Wash.
Pres., R. E. Strahan.....Wallace
Sec.-Treas., A. G. Smith..... "
Supt., D. C. McKissick..... "

Mountain streams; ½ to 2 mi. from center distribution.

Gravity distribution from reservoir; hyd. 34, hose con. 3-in. Rensselaer; meters, 25 Neptune; serv. con. 750; ord. pres. 60 to 130 lb., fire pres. 130 lb.

Rates; flat, $1 mo., bath 50c., closet 50c.

WARDNER, 1,369.

Supplied by Bunker Hill & Sullivan M. & C. Co. See Kellogg.

WEISER, 2,600.

MUNICIPAL.
Actg. Mayor, W. A. Fulkerson.....Weiser
Chmn. Comrs., F. B. Lloyd ..... "
Supt., M. R. Priest..... "
Chemist, Idaho State Laboratories...Boise

Impounding reservoirs, 2-1,000,000 gal. on Snake River; near center business section; chemical, chlorine.

Boiler, hor. return tubular 100-hp. 125 lb. Atlas 1904; hand stoking; pumps, 2-605,000 gal. vert. triplex Goulds 1904, 1-1,254,800 gal. vert. triplex Deane 1910 geared to elec. motors, 2 a. c. 30 & 75-hp. 220 v. 3 ph. 60 cys. Westg. 1907 & 1910; purchase energy from Idaho-Oregon Light & Power Co., Boise, Idaho.

Pipe, 14 mi. 4 to 16-in. c. i. & steel; hyd. 120, hose con. 2½-in. Eddy & Ludlow; valves, 130 l. h. opening Crane & Eddy; meters, 690 Neptune, National & Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 690; ord. pres. 50 to 100 lb., fire pres. 100 lb.

Rates; meter, $1 mo. 5,000 gal., 20c. 1,000 gal. max., 10c. min.

ILLINOIS

ABINGDON, 2,464.
MUNICIPAL.
Supt., J. E. Hamilton.....Abingdon
Cons. Engr., G. E. Morgan.....Chicago
Well, 6 to 9-in. 1350 ft. deep; near center business section.
Boilers, two 60-hp. 100 lb. Frost & Atlas; pumps, 1-750,000 gal. duplex Platt; air compressor, Ingersoll-Rand; pumping to elev. tank, 36,000 gal. steel.
Pipe, 5.44 mi. galv. i.; hyd. 60 Rensselaer; meters, Pittsburgh; serv. con. 240; ord. pres. 50 lb., fire pres. 110 lb.
Rates; meter, 40c. 1000 gal. max., 25c. min.

ALEDO, 2,144.
MUNICIPAL.
Mayor, J. W. McRoberts.....Aledo
Supt., J. T. Stead..... "
Well, 8-in. 1450 ft. deep.
Buy steam from Tri-County Light & Power Co.; pumps, 2 duplex and 2 air lifts; pumping to reservoirs, 2-80,000 gal.
Pipe, 12 mi. 4 to 6-in. c. i.; hyd. 103, hose con. 2½-in. Eddy and Kupferle; valves, 12 r. h. thd. Eddy; meters, 550 Lambert and Neptune; serv. con. 550; ord. pres. 43 to 80 lb., fire pres. same.
Rates: meter, 35c. 1000 gal.

ALGONQUIN, 642.
MUNICIPAL.
Supt., A. Wilknant.....Algonquin
Town Clerk, George D. Keyes... "
Springs; ½ mi. from center distribution.
Pump, driven by elec. motor, 5-hp. 220 v. Wagner; energy from Public Service Co. of Nor. Ill.; gravity distribution and pumping to elevated tank, 100,000 gal. brick.
Pipe, 2 mi. 4 to 12-in.; hyd. 37, hose con. 2½-in.; serv. con. 150; ord. pres. 35 lb., fire pres. 65 lb.
Pipe, 2 mi. 4 to 12-in.; hyd. 37, hose con. 2½-in.; serv. con. 150; ord. pres. 35 lb., fire pres. 65 lb.
Rates: flat, $2.00 mo., bath $1.00, closet $1.50

ALTON, 17,258.
ALTON WATER COMPANY.
Pres., G. M. Levis.....Alton
V. Pres., James Duncan..... "
Sec., James Wade..... "
Treas., C. A. Caldwell..... "
Gen. Mgr. & Supt., J. A. Miller..... "
Mississippi River; 1.75 mi. from center business section; settling basins, 2-800,000 gal.; mech. filters, 5,400,000 gal. Petts; chemical, sulphate of alumina.
Boilers, 2 water-tube 350-hp. 155 lb. Erie 1907; hand stoking; pumps, 1-3,000,000 gal. hor. comp. c. & f. wh. Allis-C., 1-4,000,000 gal. hor. comp. c. & f. wh. Murray 1906, 1-4,000,000 gal. hor. tri. exp. d. act. Epping Carpenter 1909, 1-4,000,000 gal. Morris, 1-4,000,000 gal. vert. American 1906, 1-6,000,000 gal. hor. Alberger 1914, d. con. to steam engine; pumping to standpipes, 2-8,000,000 gal. steel.
Pipe, 46 mi. 4 to 18-in. c. i.; hyd. 353, hose con. 2½-in. Ludlow; valves, 320 r. h. opening Ludlow; meters, 2000 Neptune; av. daily cons. 4,250,000 gal.; serv. con. 3500; ord. pres. 35 to 120 lb., fire pres. 50 to 150 lb.
Rates; $7 year, bath $4, closet $3; meters, 75c. mo. 2700 gal.; 28c. 1000 gal. max., 6c. min.

AMBOY, 1,000.
MUNICIPAL.
Mayor & Supt., F. N. Vaugh.....Amboy
Well, 10-in. 2200 ft. deep; near business center; no purification.
Boilers, 2; pumps, 1-750,000 gal. vert. double act. American 1915, 1-300,000 gal. triplex F. M. 1905; elec. motors, two 15 & 20-hp. 3 ph. a. c. Westg. 1912; pumping to elev. tank (1898) 60,000 gal. wood.
Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 20, hose con. 3-in.; meters, 170 various; av. daily cons. 50,000 gal.; serv. con. 170; ord. pres. 30 to 40 lb., fire pres. same.

ANNA, 3,000.
CENTRAL ILLINOIS PUBLIC SERVICE CO.
Office, Mattoon. For executive officers see Matton.
Asst. Audr., H. M. Brooks,
72 West Adams St.....Chicago
Well, 8-in. 600 ft. deep; no purification.
Boilers, water-tube Sterling; hand stoking.
Gravity distribution; pipe, 10 mi. c. i.; hyd. 43, hose con. 2½-in. Iowa; valves, 25 l. h. thd. Crane; meters, 200 Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 250; ord. pres. 40 lb., fire pres. 150 lb.

ARLINGTON HEIGHTS, 1,943.
MUNICIPAL.
Supt., H. Horstman.....Arlington Heights
Impounding reservoir; boiler, 48-hp. 125 lb. Dayton 1914.
Pumps, 1-360,000 gal. d. act. F. M. 1903, one comp. centrifugal pump, d. con. to elec. motor, 15-hp. Pittsburgh; & elec. generator; pumping to standpipe (1903) 60,000 gal.
Pipe, 8 mi. 4 to 10-in.; hyd., hose con. 2½-in. Ludlow; valves, r. h. opening Ludlow; meters, Neptune; serv. con. 255; fire pres. 250 lb.
Rates; meter, $5 year 16,000 gal.

ASSUMPTION, 2,000.
MUNICIPAL.
Supt., R. F. Johnson.....Assumption
Cons. Engr., C. E. Chester.....Shelbyville
Wells, six 4-in. 17 ft. deep; pumps, 1-300,000 gal. triplex Goulds 1915; driven by gasoline engine, 6-hp. I. H. C. 1913; pumping to elev. tank, 60,000 gal. steel.
Pipe, 1.85 mi. 6 & 8-in.; hyd. 27; av. daily cons. 60,000 gal.; serv. con. 104.

ASTORIA, 1,357.
MUNICIPAL.
Chmn. Comrs., B. W. Hoeltchen ... Astoria
Comr., Maurice E. Reiley ..... "
" Lee J. Moore ..... "
Well, 1700 ft. deep; near center distribution; no purification; pumping to standpipe (1897), iron; meters, 50 Pittsburgh.
Rates: flat, none; meter, 30c. 1000 gal.

ATLANTA, 1,367.
MUNICIPAL.
Wells, two 8 & 10-in. 151 ft. deep.
Boilers, 2 100-hp. ea. Oakes; pumps, 2-190,000 gal. ea. vert. Cook 1891; elec. motors, 2 75 & 100-hp. 1100 v. Ft. Wayne & Westg.; purchase energy from local power plant; pumping to standpipe, 130,000 gal.
Pipe, 6.75 mi. ¾ to 8-in. c. & w. i.; hyd. 17 Eddy; meters, 85; av. daily cons. 125,000 gal.; serv. con. 232.
Rates; flat, 50c. mo; meter, $5 year.

AURORA, 29,807.
MUNICIPAL.
Supt., T. D. Stinson ..... Aurora
Wells, five 6 & 8-in. 2250 ft. deep.
Pumps, 2-1,500,000 gal. comp. duplex Deane, 1-3,500,000 gal. hor. tri. exp. Nordberg; air compressor; pumping to standpipe, 225,000 gal.
Pipe, 73.25 mi.; hyd. 609; meters, 5756; serv. con. 6552.

AVON, 1,000.
AVON MILLING & MANUFACTURING CO.
Pres., H. F. Townsend ..... Avon
V. Pres., L. A. Townsend ..... "
Sec.-Treas., T. A. Tompkins ..... "
Impounding reservoir & wells, 2 open; near center business section; pipe, one mi. 3-in. c. i.; hyd. 10, hose con. 2-in. Ludlow; valves, r. h. opening.
Rates; flat, $1 mo.

BARRINGTON, 1,444.
MUNICIPAL.
Supt., Edward Peters ..... Barrington
Collector, F. L. Waterman ..... "
Well, 12-in. 350 ft. deep; ½ mi. from center distribution.
Boiler, 80-hp.; hand stoking; pumps, 2-576,000 gal. Platt; elec. motor, 73.3 kw. 220 v. 3 ph. 60 cys. G. E.; elec. energy from Public Service Co. of Nor. Ill.; pumping to standpipe (1898), steel.
Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 100, hose con. 2-in. Eddy; valves, 15 r. h. thd.; meters, 8; av. daily cons. 192,000 gal.; serv. con. 376; ord. pres. 45 to 60 lb., fire pres. same.
Rate: flat, $4 year, closet $1.00.

BARRY, 1,647.
MUNICIPAL.
Chmn. Comrs., W. Fisher ..... Barry
Mayor, C. E. Beavers ..... "
Well, 2510 ft. deep; in center of town; no purification.
Pump, driven by gas engine, 8-hp. F. M.: pumping to standpipe (1894) 70,000 gal. brick.
Pipe, 1⅛ mi. 4 to 12-in. c. i.; hyd. 14, hose con. 3-in.; av. daily cons. 20,000 gal.; ord. pres. 20 to 60 lb., fire pres. same.

BATAVIA, 4,436.
MUNICIPAL.
Mayor, J. V. Burton ..... Batavia
City Clerk, W. H. Reaney ..... "
Supt., L. A. Parre ..... "
Well, 10-in. 1279 ft. deep; near center distribution; no purification.
Boilers, 3 Scotch marine 450-hp. Freeman; mechanical stokers, Burke; pumps, 2-1,300,000 gal. Worth.; pumping direct.
Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 126, hose con 2½-in. R. D. W.; valves, 60 r. h. thd. Rensselaer; meters, 1000 various; av. daily cons. 500,000 gal.; serv. con. 1000; ord. pres. 65 to 125 lb., fire pres. 125 lb.

BEARDSTOWN, 6,107.
MUNICIPAL.
Mayor, H. C. Weil ..... Beardstown
Comr., Charles Wynn ..... "
City Clerk, Robert Maslin ..... "
Wells, 80 2 to 6-in. 40 to 100 ft. deep; one mi. from center business section.
Boilers, 2 tubular 150-hp. 100 lb. Erie; pumps, 1-750,000 gal. simple duplex Worth. 1894, 1-750,000 gal. comp. duplex Worth. 1894; pumping to elev. tank, 35,000 gal. steel.
Pipe, 15 mi. 2 to 12-in. c. & w. i.; meters, none; av. daily cons. 450,000 gal.; serv. con. 1100; ord. pres. 50 lb., fire pres. 85 to 100 lb.
Rates; flat, $8 year.

BEECHER, 543.
MUNICIPAL.
Well, 250 ft. deep; pumping to elev. tank (1911).

BELLWOOD, 943.
MUNICIPAL.
Trustee, Chas. J. Moertle ..... Bellwood
Well, 8 & 12-in. 1400 ft. deep; pumps, one deep well American driven by elec. motor. 30-hp. 220 v. 3 ph. 60 cys.; purchase energy from Sanitary District of Chicago, pumping to elev. tank, 60,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 7 mi. 6 to 10-in. c. i.; meters, 134 National, Neptune & Pittsburgh; av. daily cons. 10,000 gal.; serv. con. 134; ord. pres. 60 lb.
Rates; meter, $1.75 quarter 5000 gal.

BELVIDERE, 7,253.
MUNICIPAL.
Supt., W. M. Marean ..... Belvidere
Wells, three 8-in. 1800 to 2000 ft. deep.
Pumps, 2-260,000 gal. triplex Goulds, 1-126,000-gal. triplex Deane, 1-2,500,000 gal. cross comp. L-D-G; steam engine.
Pipe, 24.5 mi. c. i.; hyd. 206, hose con. 4-in.; valves, 110; meters, 1260 Pittsburgh; serv. con. 1720; ord. pres. 70 lb. fire pres. 100 lb.

Rates; flat, $5 year, closet $2.50; meter, 15c. mo. max., 8c. min.

BEMENT, 1,530.
MUNICIPAL.
Town Clerk, J. M. B. Stewart.....Bement
Impounding reservoir, 40,000 gal. & wells, three 6 & 8-in. 137 to 150 ft. deep; near center business section.
Boiler, tubular 45-hp. 80 to 110lb.; pumps, 3-173,000 gal. single, 1-720,000 gal. simple duplex; purchase energy from local Electric Light Co.; pumping to standpipe, 60,000 gal.
Pipe, 5 mi. 4 to 8-in.; hyd. 29; meters, 98; av. daily cons. 42,050 gal.; serv. con. 147; ord. pres. 40 lb., fire pres. 100 lb.
Rates; meter, $1.50 quarter.

BENSON, 362.
MUNICIPAL.
Pres. Trustees, F. E. Learned.....Benson
Town Clerk, J. W. Heiken..... "
Well, 20 ft. in diam. 60 ft. deep.
Pump, driven by gasoline engine, 8-hp. Columbia; pumping direct and to standpipe (1895), brick.
Pipe, one mi. 4 to 12-in. c. i.; hyd. 12, hose con. 4-in.; meters, 25 National; serv. con. 25.
Rates: meter, ½c. cu. ft.

BENTON, 2,675.
HAMILTON UTILITIES COMPANY.
Pres. & City Engr., F. O. Hamilton.Benton
V. Pres. & Sec., C. E. Hamilton.... "
Impounding reservoir, 200,000,000 gal., ponds & wells; pumps, one comp. duplex d. act. Canton, one centrifugal driven by elec. motor.

BERWYN, 5,841.
Supply from CHICAGO.

BLOOMINGTON, 25,768.
MUNICIPAL.
Supt., S. S. Noble.....Bloomington
Asst. Supt., C. C. Williams... "
Pur. Agt., J. J. Quinn..... "
Wells, 12 70 ft. deep; reservoir, 10,000,000 gal.; no purification.
Boilers, 4 water-tube 1200-hp. Heine; pumps, 1-6,000,000 gal. comp. Canton, 1-4,000,000 gal. Canton; pumping direct.
Pipe, 60 mi. 4 to 20-in. c. i.; hyd. 650, various; valves, 463 various; meters, 4900 various; av. daily cons. 2,500,000 gal.; serv. con. 5000; ord. pres. 65 lb.
Rates: meter, 25c. 1000 gal. max., 15c. min.

BLUE ISLAND, 8,043.
MUNICIPAL.
Supt., R. B. Hammond.....Blue Island
Wells, three 10-in. 1340 to 1659 ft. deep; no purification.
Boilers, 2 return tubular 100-hp. 80 lb. 1894; pumps, 1-720,000 gal. hor. simple duplex Goulds 1885, 2-576,000 gal. hor. Platt 1909; air compressors, 3 Ingersoll-Rand; pumping direct & to elev. tank (1909) 120,000 gal. iron.
Pipe, 20 mi. 4 to 10-in. c. i.; hyd. 300, hose con. 2½-in. Ludlow & R. D. W.; valves, 100 r. & l. h. opening Eddy; meters, 100 various; av. daily cons. 600,000 gal.; serv. con. 1720; ord. pres. 19 to 35 lb., fire pres. 35 to 42 lb.
Rates; meter, 20c. 1000 gal.

BLUE MOUND, 800.
MUNICIPAL.
Vil. Pres., T. Mitchell.....Blue Mound
Well, open; near center business section.
Purchase energy from Central Illinois Public Service Co.; pumping to standpipe (1912) 60,000 gal. iron.
Pipe, 2.5 mi. 2 to 8-in. c. i.; hyd. 20; valves, 32; av. daily cons. 5,000,000 gal.; ord. pres. 40 lb.

BRACEVILLE, 971.
MUNICIPAL.
Mayor, George Barton.....Braceville
Town Clerk, C. R. Scurrah..... "
Supt., William Tyler..... "
Well, 14x16 ft. 31 ft. deep; no purification.
Boiler, one hor. tubular 33-hp. Brownell, one vertical tubular 9-hp. Brownell; hand stoking; pumps, 2 duplex 561,000 gal. Deane; pumping direct and to elevated tank, 18,000 gal., wood.
Pipe, 1.2 mi. 4 to 12-in. c. i.; hyd. 18, hose con. 3-in. Kupferle; valves, 9 r. h. thd. Kupferle; meters, none; av. daily cons. 20 to 45 lb., fire pres. 75 to 100 lb.

BRAIDWOOD, 1,958.
MUNICIPAL.
Mayor, James Hurst.....Braidwood
Ch. Engr. P'g. Sta., F. E. Boehm "
Wells, 10, 16 ft. deep; no purification.
Pump, driven by elec. motor, 10-hp. 3 ph. F. M.; pumping to standpipe (1910) wood.
Pipe, 6 mi. 4-in. c. i.; hyd. 26, hose con. 2½-in. Kupferle; valves, 2; meters, none; av. daily cons.10,000 gal.; serv. con. 28; ord. pres. 43 lb., fire pres. same.
Rates: flat, 50c. mo.

BREESE, 2,500.
MUNICIPAL.
Supt., George Carr.....Breese
Shoal Creek; 2 mi. from center business section; settling & coagulating basins, 4; chemicals, sulphate of iron & lime.
Pumps, 2-250,000 gal. ea. triplex driven by elec. motor, 2 comp. cuplex McGowan; av. daily cons. 50,000 gal.; serv. con. 75.
Rates; flat, $3 year.

BRIDGEPORT, 2,703.
MUNICIPAL.
Comr., N. H. Fryberger.....Bridgeport
" E. L. Cox..... "
" Chas. Leach..... "
Supt., Clay Seed..... "
Cons. Engr., J. S. Spiker.....Vincennes
Ambraw River; 4½ mi. from center distribution.

Pumping by Central Illinois Public Service Co. from Lawrenceville; elevated tank (1913) 150,000 gal., steel.

Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 55, hose con. 2½-in.; valves, 32; meters, 250 various; av. daily cons. 75,000 gal.; serv. con. 250; ord. pres. 67 lb., fire pres. 120 lb.

Rates: meter, 50c. 1000 gal. max.,15c.min.

BUCKLEY, 495.

MUNICIPAL.

Town Clerk, B. E. Morgan.....Buckley

Artesian well, 6-in. 175 ft. deep.

Pumps, driven by elec. motors; energy from Central Illinois Public Service Co.; pumping to elevated tank (1910) 1000 gal. wood.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 26, hose con. 3-in.; serv. con. 50.

BUDA, 887.

MUNICIPAL.

Supt., J. W. Smith.....Buda
Engr. P'g. Sta., J. H. Parker..... "
Town Clerk, J. H. Morgan..... "

Well, 6-in. 1611 ft. deep; ½ mi. from center distribution; no purification.

Boiler, water-tube 80-hp.; hand stoking; pumps, 2-288,000 gal. driven by steam engine, 80-hp. Kewanee; pumping to reservoir, 20,000 gal. and elevated tank.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 31, hose con. 2½-in.; valves, r. h. thd.; meters, none; av. daily cons. 250,000 gal.; serv. con 150; ord. pres. 325 to 43 lb., fire pres same..

Rates: flat, $1.25 quarter.

BURNHAM, 328.

Supply from CHICAGO.

BUSHNELL, 2,619.

MUNICIPAL.

Chmn. Comrs., C. E. Heister.....Bushnell
Comr., Ira Kemp..... "
" Wilson Wast..... "
City Clerk, Ed. Dertinger..... "
Supt. & Engr. P'g Sta.,
Willard Waltman..... "

Impounding reservoirs, 2-100,000 gal. & wells, 3 8-in. 1355 ft. deep; near center business section.

Boilers, 2 hor. tubular 65-hp. 85 lb. Burlington 1889 & 1898; hand stoking; pumps, 2 d. act. Cook 1898, 2 tri. exp. 1915, one comp. 189, one duplex Deane 1898, one duplex Deane 1889, one duplex Deane 1889; pumping to elev. tanks (1914) 100,000 gal. steel, Chicago Bridge & Iron Co.

Pipe, 12 mi. 4 to 8-in. c. i.; hyd. 60, hose con. 2½-in. Iowa, Kupferle, & Cincinnati; valves, 25 l. h. opening Crane; meters, 135 Pittsburgh & Neptune; av. daily cons. 100,000 gal. 66%; serv. con. 600; ord. pres. 50 to 53 lb., fire pres. 80 to 100 lb.

Rates; flat, including bath & closet $9 year; meter, 75c. mo., 25,000 gal., 25c. 1000 gal.

BYRON, 932.

MUNICIPAL.

Mayor, L. D. Marshall.....Byron
City Clerk, F. B. Spoor..... "
Supt., D. E. Doughnour..... "

Artesian well, 2240 ft. deep; no purification.

Pump, 432,000 gal. Deming; gasoline engines, one, 30-hp. Otto, one, 50-hp. Olds; pumping to elevated tank, 18,000 gal.

Pipe, 3½ mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Rensselaer; valves, 21 r. h. thd. Eddy and Rensselaer; meters, 146 Hersey; av. daily cons. 54,000 gal.; serv. con. 158; ord. pres. 30 to 75 lb., fire pres. 90 lb.

CAIRO, 14,548.

CAIRO WATER CO.

Pres. & Treas., William P. Beeber....Cairo
Sec., Thos. N. Cannon..... "
Supt. & Mgr., C. M. Ross..... "
Ch. Engr. P'g. Sta., Wm. Wzagner.... "

Ohio River; 1¼ mi. from center distribution; coagulating tanks, 6-72,000 gal. ea.; mechanical filters, 4,000,000 gal. chemicals, sulphate of alumina and hypochlorite of lime

Boilers, 4 tubular 500-hp. O'Brien; pumps, 5-23,000,000 gal. Allis C., Worth., McGowan and Herron; pumping direct and to elevated tanks, 200,000 gal., steel.

Pipe, 27 mi. 6 to 16-in. c. i.; hyd. 287, hose con. 2½-in. R. D. W. and National; valves, 182 Crane; meters, 250 various; av. daily cons. 4,000,000 gal.; serv. con. 3000; ord. pres. 45 to 100 lb., fire pres. 70 to 125 lb.

Rates: flat, $6 year, bath $3.50, closet $3.25; meter, min. charge 35c. mo., 17c. 1000 gal. max., 6c. min.

CAMBRIDGE, 1,800.

MUNICIPAL.

Mayor, H. C. Weinrich .....Cambridge

Well, one 1380 ft. deep; near center business section.

Pumps, 1-115,000 gal. double act. Deming, 1-864,000 gal. duplex Deane; gasoline engine, 40-hp.; pumping to reservoir & elev. tank, 35,000 gal. steel.

Pipe, 3.5 mi.; hyd. 30; valves, 17; meters, 200; meter, 35,000 gal.; serv. con. 350; ord. pres. 40 to 50 lb., fire pres. 120 lb.

Rates; flat, $5.50 year; meter, 40c. 1000 gal.

CAMPUS, 250.

MUNICIPAL.

Pres. Trustees, R. J. Ahern.....Campus

Pump driven by gasoline engine, 25-hp. F. M.; pumping to standpipe (1900) steel.

Pipe, one mi.; hyd. 15, hose con. 2½-in. Crane; meters, 12 Buffalo; av. daily cons. 100 bbl.; serv. con. 50; ord. pres. 30 to 40 lb., fire pres. 30 to 100 lb.

CANTON, 10,543.

MUNICIPAL.

Chmn. Comrs., W. J. Snider.....Canton
City Clerk, Joseph Waugh..... "

City Engr., O. W. Brickner.....Canton
Supt., J. P. Gallagher..... "

Well, two, 6 & 8-in. 1654 & 2065 ft. deep; ½ mi. from center distribution.

Boilers, 3 water-tube 270-hp.; hand stoking; pumps, 4-3,000,000 gal. L-D-G.; pumping direct and to reservoirs, 2-1,190,000 gal.

Pipe, 24.25 mi. 4 to 30-in. c. i.; hyd. 188, hose con. 2½-in. Rensselaer; valves, 300 r. & l. h. thd. Rensselaer; meters, 14,000 Hersey, Neptune and National; av. daily cons. 400,000 gal.; serv. con. 1400; ord. pres. 50 to 60 lb., fire pres. 90 to 125 lb.

Rates: meter, 30c. 1000 gal. max., 25c. min.

CAPRON, 562.

MUNICIPAL.

Supt., A. Vance.....Capron
Cons. Engr., E. W. Diamond..... "
Ch. Engr. P'g. Sta., F. Fitch..... "
Chemist, F. Wilcox..... "

Well, 8-in. 700 ft. deep; at center of distribution.

Pump, 72,000 gal. F. M. belted to gasolene engine, 10-hp. Lewis; pumping to elevated tank (1900) 30,000 gal. brick and wood.

Pipe, 2 mi. 4 to 12-in. c. i:; hyd. 27, hose con. 2½-in.; meters, 90 Buffalo; av. daily cons. 15,000 gal.; serv. con. 150; ord. pres. 46 lb., fire pres. same.

CARBONDALE, 6,000.

CENTRAL ILLINOIS PUBLIC SERVICE COMPANY. Office, Mattoon. For officers, see Mattoon.

Wells, five 8-in. 500 ft. deep; near center distribution; no purification.

Boilers, 2 water-tube Erie; hand stoking; pumping to standpipe.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 57, hose con. 2½-in.; meters, 200 Neptune & Worth.; av. daily cons. 200,000 gal.; serv. con. 460; ord. pres. 30 to 55 lb., fire pres. 90 lb.

Rates; meter, 60c. 1000 gal. max., 20c. min.

CARBON HILL, 820.

MUNICIPAL.

Vil. Pres., Joseph Clark.....Carbon Hill

Well, 8-in. 1750 ft. deep; pumps, 1-97,000 gal. Goulds belted to gas engine, 4-hp. Brumner; pumping to standpipe, 25,000 gal. wood.

Pipe, 1.5 mi. 3 & 6-in.; hyd. 24; meters, none; av. daily cons. 8500 gal.; ord. pres. 13 lb., fire pres. same.

CARLINVILLE, 4,000.

CARLINVILLE WATER SUPPLY CO.

Pres., A. H. Saden.....Boston
Sec., Treas. & Supt.,
Geo. J. Castle.....Carlinville

Macoupin Creek; 1.5 mi. from center business section; settling basin, 1-85,000 gal.; coagulating basin, 2-1000 gal.; mech. filters, 1,000,000 gal.

Boilers, two 60 & 96-hp. 80 & 130 lb. Brownell 1913; pumps, 2-1,000,000 gal. Deane 1889; pumping to standpipe (1899) 120,000 gal.

Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 76, hose con. 2½-in. Ludlow; valves, 40 r. h. opening; meters, one; av. daily cons. 450,000 gal.; serv. con. 500; ord. pres. 80 lb., fire pres. 100 lb.

CARLYLE, 1,982.

MUNICIPAL.

Mayor, H. C. Norcross.....Carlyle
City Clerk, J. A. Means..... "
City Engr., F. A. Lietze..... "
Supt., Geo. Schilling..... "

Kaskaskia River; ¼ mi. from center distribution; no purification.

Boilers, 3 hor. tubular 375-hp.; hand stoking; pumps, 2-5,000,000 gal. ea. Deane; pumping to standpipe (1887) iron.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 65, hose con. 3-in. Ludlow, Crane & Kupferle; valves, 28 r. h. thd. Ludlow and Crane; meters, 6 Pittsburgh and Hersey; av. daily cons. 320,000 gal.; serv. con. 328; ord. pres. 40 to 70 lb., fire pres. 65 to 120 lb.

Rates: flat, $4 year, bath $3, closet $3; meter, 5c. 1000 gal. max., 3c. min.

CARMI, 2,833.

MUNICIPAL.

Mayor, John C. Stakes.....Carmi

Little Wabash River; pumps, one centrifugal; pumping to standpipe, 95,000 gal.

Pipe, 5 mi.; hyd. 50; valves, 6; av. daily cons. 400,000 gal.; serv. con. 500.

CARPENTERSVILLE, 1,128.

MUNICIPAL.

Pres. Comrs., Chas. A. Baker. Carpentersville
Comr., William Wollert..... "
" Chas. Finn..... "
Supt. & Engr. P'g. Sta.,
Fred Pertit..... "

Springs in bottom of reservoir; near center business section.

Pumps, 1-504,000 gal. tri. exp. Platt 1914; elec. motor, 25-hp. 3 ph. 60 cys. G. E. 1914; gas engine, 30-hp.; pumping to standpipe (1914) 57,000 gal.; Chicago Bridge & Iron Works.

Pipe, 5 mi. 4 to 10-in.; hyd. 51, hose con. 2½-in. Western; valves, 36 r. h. opening Western; meters, 65 various; serv. con. 68; ord. pres. 50 to 60 lb., fire pres. 60 to 100 lb.

Rates; meter, 50c. mo.

CARROLLTON, 2,323.

MUNICIPAL.

Chmn. Comrs.,
George D. Headrick .....Carrollton
Comr., John W. Strain..... "
" Wm. L. Armstrong..... "

Springs, 4½ mi. from center distribution.

Boiler, tubular 70-hp.; pumps, 360,000 gal. Deane; oil engine, 40-hp. International; pumping to standpipe (1890) 28,000 gal. brick and steel.

Pipe, 9½ mi. 6 & 8-in.; hyd. 65, hose con. 2½-in Rensselaer; valves, 14; meters,

250 Pittsburgh and Worth.; av. daily cons. 135,000 gal.; serv. con. 350; ord. pres. 160 ot 170 lb., fire pres. 175 to 180 lb.

Rates: meter, 3c. 100 gal. max., 1c. min.

CARTHAGE, 2,373.

MUNICIPAL.

Well, 1000 ft. deep; pump, one deep well Goulds driven by elec. motor, 10-hp. 220 v. 3 ph. 60 cys. Westg.; pumping to elev. tank, wood.

Pipe, 3.75 mi. 3 to 6-in.; hyd. 50; serv. con. 160.

Rates; flat $5 year, bath $3, closet $6.

CASEY, 2,157.

MUNICIPAL.

Mayor, L. B. Lemay.....Casey

Well, 60 to 70 ft. deep; pumps, 1-500,000 gal.; pumping to elev. tank, 70,000 gal.

CEDAR POINT, 545.

CEDAR POINT LIGHT & WATER COMPANY.

Supt., C. C. Swift.....Cedar Point

Well, 1750 ft. deep; near center business section; impounding reservoir, 15,000 gal.; pumping to elev. tank (1912) 35,000 gal.

Pipe, 1.75 mi. 4 to 8-in. ;hyd. 18; valves, 6; meters, 11; av. daily cons. 13,500 gal.; serv. con. 59; ord. pres. 60 lb., fire pres. same.

CENTRALIA, 9,680.

MUNICIPAL.

Chmn. Comrs., C. C. Davis.....Centralia
Comr., Mas Prill..... "
" H. Cunningham..... "
Supt., A. G. Reinhart..... "
Engr. P'g. Sta., James Shunks... "

Impounding reservoirs, 2-1,060,000 gal.; 10 mi. from center business section; chemical, hypochlorite of lime.

Boilers, one tubular 125-hp. 110 lb. Rohan 1911, one tubular 130-hp. 110 lb. O'Brien 1914; pumps, 283,500,000 gal. hor. tri. exp. d. act. Prescott 1912; pumping direct.

Pipe, 25 mi. 4 to 20-in. c. i. & wood; hyd. 154, hose con. 2½-in. Michigan & Rensselaer, meters, 1147 National & Neptune; av. daily cons. 2,225,000 gal.; serv. con. 1159; ord. pres. 40 to 100 lb., fire pres. same.

Rates; meter, $4 year; 30c. 1000 gal. max., 8c. min.

CERRO GORDO, 876.

MUNICIPAL.

Vil. Pres., A. C. Doyle.....Cerro Gordo
Town Clerk, H. C. Philips..... " "

Wells, 2 6 & 8-in. 150 ft. deep; pumps, 2-108,000 gal. ea. single act. Goulds; gasoline engine, 10-hp. F. M.; pumping to elev. tank, 34,000 gal. steel.

Pipe, 3.91 mi. 4 to 8-in. c. i.; hyd. 40; hose con. 4-in. Chapman; valves, 14; meters, 100; av. daily cons. 25,000 gal.; serv. con. 100; ord. pres. 40 lb.

Rates; meter, $5 year, 20c. 1000 gal. max., 15c. min.

CHADWICK, 600.

MUNICIPAL.

Vil. Pres., Mr. Spealman.....Chadwick
Engr. P'g. Sta., I. H. Etnyre.... "

Well, 600 ft. deep; boiler, tubular 100-hp. 90 lb.; pumps, 1-59,000 gal. single act. Deming; steam engine, 15-hp.; elec. motor, d. c. 15 kw. 125 v. Westg.; pumping to elev. tank, 60,000 gal. wood.

Pipe, one mi. 4 & 6-in.; hyd. 15, hose con. 4-in.; valves, 4; meters, 75 Pittsburgh; serv. con. 75; ord. pres. 30 to 40 lb.

CHAMPAIGN, 12,421.

CHAMPAIGN & URBANA WATER CO.

Pres., Mr. Prettyman.....Champaign
V. Pres. & Mgr.,
F. C. Amsbary..... "
Sec. & Treas., J. B. Prettyman. "
Ch. Engr. P'g. Sta.,
J. F. Marquardt..... "

Wells, 22, 8-in. 160 ft. deep; near center distribution: mechanical filters, 2,000,000 gal.; chemicals, none.

Boilers, 3 hor. tubular 200, & 2, 125-hp. ea.; hand stoking; pumps; 3-5,000,000 gal. Gould, L. D. G. and Worth.; elec. motors, 24, 220 v. 3 ph. 60 cys. Wagner; pumping direct and to reservoirs, 3-1,100,000 gal.

Pipe, 38 mi. 4 to 12-in. c. i.; hyd. 320, hose con. 2½-in. Ludlow; valves, r. h. thd.; meters, 4100 mostly Trident; av. daily cons. 1,600,000 gal.; serv. con. 4700; ord. pres. 50 lb., fire pres. 90 to 110 lb.

Rates: flat, $5 year; meter, 25c. 1000 gal. max., 6c. min.

CHARLESTON, 6,000.

MUNICIPAL.

Mayor, T. T. Shoemaker.....Charleston
Town Clerk, F. J. Trimball..... "

Embarrass River; settling basins, 2-330,000 gal.; filtration plant, 1,000,000 gal. Pittsburgh; chemical, hypochlorite of lime.

Pumps, 1-1,500,000 gal. comp. duplex Deane, 1-2,000,000 gal. comp. duplex McGowan, 1-1,000,000 gal. centrifugal driven by steam engine, 1-3,000,000 gal. centrifugal; pumping to elev. tank, 200,000 gal.

Pipe, 18 mi.; hyd. 90; meters, 40; av. daily cons. 1,125,000 gal.; serv. con. 1100.

CHATSWORTH, 1,112.

MUNICIPAL.

Well, 1350 ft. deep, reservoir, 10,000 gal.; pumps, 1-200,000 gal., 1-450,000 gal.; pumping to tank, 30,000 gal.

CHENOA, 1,314.

MUNICIPAL.

Mayor, F. H. Burt.....Chenoa
Supt., A. J. Slater..... "

Well, 8-in. 2035 ft. deep; impounding reservoir, 100,000 gal.

Pumps, 1-162,000 gal. Goulds, 1-360,000 gal. triplex Goulds; gasoline engine, 20-hp. Stover; pumping to elev. tank, 50,000 gal. steel.

Pipe, 3.90 mi. 4 to 8-in. c. i.; hyd. 60; valves, 10; meter, 160; av. daily cons.

57,000 gol.; serv. con. 155; ord. pres. 56 lb., fire pres. same.

Rates; meter, $1.50 quarter, 35c. 1000 gal.

CHERRY, 1,048.

MUNICIPAL.

Vil. Pres., James Hanney.....Cherry

Well; hyd. 30; meters, 30.

CHESTER, 2,747.

CHESTER WATER & POWER CO.

Pres. Allen Short.....Chester
V. Pres., George Hoffman..... "
Sec. & Treas. & Supt.,
Joseph Knapp..... "
Ch. Engr. P'g. Sta.,
Oscar A. Barnett..... "

Mississippi River; one mi. from center distribution.

Boiler, tubular 200-hp. Globe; pumps, 2-180,000 & 604,000 gal. F. M.; pumping to elevated tank, 30,000 gal. wood.

Pipe, 3 mi. 4 to 12-in. c. i; hyd. 30, hose con. 2½-in. American; valves, 10 r. h. thd.; av. daily cons. 300,000 gal.; serv. con. 155; ord. pres. 165 to 185 lb., fire pres. same.

CHICAGO, 2,300.000.

DEPARTMENT OF PUBLIC WORKS.

Comr., L. E. McCann.....Chicago
Ch. Engr., John Ericson..... "
Engr., P. T. Saner..... "
Engr. P'g. Sta., Henry A. Allen.... "

Lake Michigan.

14th St. Sta.: boilers, 6 Scotch marine 250-hp. ea. 130 lb. C. & V.; pumps, 1-16,-550,000 gal. vert. Allis 1891, 1-16,550,000 gal. Allis 1892, 1-16,550,000 gal. Allis 1892, 1-29,800,000 gal. Lake Erie 1898, 1-25,000,-000 gal. Allis-C. 1914 steam turbine driven. 8th St. Sta.: boilers, 4 hor. water-tube 340-hp. 80 lb. B. & W., 3 hor. water-tube 300-hp. 80 lb. B. & W. 1911; pumps, 1-12,200,000 gal. hor. Holly 1886, 1-hor. duplex Holly 1888, 1-11,600,000 gal. hor. duplex Worth. 1890, 1-12,600,000 gal. hor. duplex Worth. 1890, 1-12,600,000 gal. hor. duplex Holly 1892, 1-15,700,000 gal. hor. duplex Holly 1892, 1-23,300,000 gal. hor. duplex Snow 1906, 1-15,700,000 gal. Holly 1898, 1-21,-500,000 gal. centrifugal Allis-C. 1914, 1-21,-500,000 gal. centrifugal Kerr 1914. 22nd St. Sta.: boilers, 6 hor. return tubular 125-hp. 65 lb. 1884, 4 water-tube 225-hp. 75 lb. Keeler 1914; pumps, 1-13,100,000 gal. vert. duplex Quintard 1876, 3-13,100,000 gal. vert. duplex Quintard 1876 & 1884, one centrifugal Platt 1912 steam turbine driven, one centrifugal Burke 1912 steam turbine driven. Chicago Ave. Sta.: boilers, 6 Scotch marine 225-hp. 155 lb. 1900-2; pumps, 2-10,800,000 gal. hor. duplex Holly 1887, 3-29,300,000 gal. vert. tri. exp. Allis-C. 1904–7. Springfield Ave. Sta.: boilers, 8 Scotch marine 145 & 155 lb. 1900–7; pumps, 3-18,900,000 gal. vert. duplex Worth. 1901, 1-37,800,000 gal. vert. duplex Worth. 1906, 1-25,000,000 gal. centrifugal Allis-C. 1914. Central Park Ave. Sta.: boilers, 8 Scotch marine 250-hp. 150 lb. 1899–1907; pumps, 3-18,900,000 gal. vert. duplex Worth. 1900, 1900, 1-37,800,000 gal. vert. duplex Worth. 1906, 1-25,000,000 gal. centrifugal Allis-C. 1914. Harrison St. Sta.: boilers, one 354-hp. 155 lb. Oil City 1914, 2 hor. tubular 340-hp 148 lb. B. & W. 1900; pumps, 2-16,600,000 gal. vert. tri. exp. Allis 1889, 1-25,000,000 gal. centrifugal Allis-C. 1914. Lake View Sta.: boilers, 3 water-tube 180-hp. 100 lb. B. & W. 1912, 2 Scotch marine 250-hp. 100 lb. 1906, one hor. water-tube 500-hp. 100 lb. Freeman 1912; pumps, 3-29,300,000 gal. vert. tri. exp. Nordberg 1912–14. Roseland Sta.: boilers, 6 water-tube 300-hp. 175 lb. Edgemoor 1911–14; pumps, 2-24,150,000 gal. vert. tri. exp. Allis-C. 1911, 2-5,000,000 gal. ea. centrifugal Worth. 1914 steam turbine driven. Washington Heights Sta.: boilers, 2 hor. return tubular 130 lb. Brownell 1906; pumps, 1-1,500,000,000 gal. duplex L-D-G 1900, 1-2,860,000 gal. duplex Allis-C. 1906. Norwood Park Sta.: boilers, 2 hor. return tubular 45-hp. 70 lb. 1889; pumps, 2-300,000 gal. duplex Deane 1889-99, 1-287,000 gal. deep well Cook 1901. Rogers Park Sta.: boilers, 2 hor. return tubular 75-hp. 80 lb. McGarty; pumps, 2-1,500,000 gal. ea. duplex Deane 1889. Morgan Park Sta.: pumps, 1-260,000 gal. duplex Platt 1898, 1-500,000 gal. vert. tri. exp. Deane 1907. Edison Park Sta.: pumps, 1-62,300,000 gal. vert. Pillsbury. Jefferson Park Sta.: pumps, 3 triplex Saeger 1912 gas engine driven, one centrifugal Advance gas engine driven; pumping direct.

Pipe, 2405 mi. 4 to over 30-in. c. i.; hyd. 25, 678, hose con. 2½ to 4-in. Chicago; valves, 21,450 Chicago; meters, 16, 969 various; av. daily cons. 6,000,000 gal.; serv. con. 287,018; ord. pres. 39 to 156 lb.

Rates; meter, 62.5c. 1000 cu. ft.

THE UNION STOCKYARD & TRANSIT COMPANY.

Pres., Arthur G. Leonard.....Chicago
V. Pres., H. E. Poronto..... "
Chmn., J. A. Spoor..... "
Gen. Mgr., O. T. Henkle..... "
Supt., T. H. Jennings..... "

The following is the Yard Water System:

Lake Michigan & wells, five 8 to 16-in. 1600 to 2250 ft. deep; no purification.

Pumps, 1-2,000,000 gal. Lawrence, 2-5,000,000 gal. Lawrence driven by elec. motors, 220 v. 3 ph. 60 cys. Westg.; air compressor, Ingersoll-Rand; pumping direct & to reservoirs, 2-2,625,000 gal.

Pipe, 60 mi. 4 to 12-in.; hyd. 200, hose con. 2½-in. Chapman; valves, r. & l. h. thd.; meters, 2 Venturi; av. daily cons. 3,000,000 gal.; serv. con. 6,500; ord. pres. 17 to 25 lb., fire pres. 35 to 40 lb.

The following is the Filtered Water System:

Bubbly Creek Branch of the Chicago River; settling & coagulating basins, 2-2,-158,000 gal. ea., 2-116,250 gal. ea., 1-69,-750 gal. ea.; mech. filters, 5,000,000 gal.;

chemicals, hypochlorite of lime, sulphate of alumina & liquid chlorine.

Pumps, 2-2,500,000 gal. De Laval; pumping direct.

Pipe, 18 mi. 4 to 14-in.; hyd. 150, hose con. 2½-in. Chapman; valves, r. h. opening; meters, 3 Venturi; av. daily cons. 800,000 gal.; serv. con. 450; ord. pres. 30 to 60 lb., fire pres. 80 to 100 lb.

MIDDLE WEST UTILITIES COMPANY. Office, 112 W. Adams St.

Pres., Samuel Insull.....Chicago
V. Pres., Martin J. Insull..... "
2nd V. Pres., Jno. L. Gilchrist..... "
3d V. Pres., Frank J. Baker..... "
Treas., R. W. Waide..... "
Sec., E. J. Doyle..... "

Operates the following subsidiary companies: Central Illinois Public Service Company—supplying Anna, Carbondale, Lawrenceville, Mattoon, Mounds, Robinson, Tuscola, Johnston City, Marion & Harrisburg; The Water & Light Company of Nebraska City, Neb.; Indiana Public Service Company—supplying Aurora, Ind.; Interstate Public Service Company—supplying Fowler, Franklin, Greenwood & Shelbyville, Ind.; New Albany Waterworks—supplying New Albany, Ind.; Franklin Water, Light & Power Co.—supplying Franklin, Ind.; Kentucky Utilities Company—supplying Mt. Sterling, Shelbyville & Somerset, Ky.

PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS. Office, 137 So. La Salle St.

Pres., Samuel Insull.....Chicago
V. Pres., Frank J. Baker..... "
" " Chas. A. Monroe..... "
" " John H. Gulick..... "
Asst. to Pres., J. F. Gilchrist..... "

Supplies water to various towns in northern Illinois including Chillicothe, Coal City, Harvey, LaGrange & Pontiac.

H. M. BYLLESBY & COMPANY. Office, 208 So. La Salle St.

Pres., H. M. Byllesby.....Chicago
V. Pres. in charge of operation
A. S. Huey..... "
V. Pres. & Ch. Engr., O. E. Osthoff. "

Operate plants in Albany, Independence & Springfield, Ore.

CHICAGO HEIGHTS, 20,000.

MUNICIPAL.

Mayor, L. H. Hook.....Chicago Heights
Chmn. Comrs. & Supt.,
H. F. Hall..... " "
Engr. P'g. Sta., J. A. Russell " "

Wells, 4 12-in. 300 ft. deep; ¼ mi. from center business section; no purification.

Boilers, 2 water-tube 300-hp. 125 lb. Heine 1901; hand stoking; pumps, 1-5,000,000 gal. hor. comp. c. & f. wh. Holly 1902, 1-3,000,000 gal. hor. comp. d. act. Platt 1900, 3-2,000,000 gal. vert. Hill-Tripp 1910, 1-1,300,000 gal. vert. Hill-Tripp 1914; steam engine, tandem compound Fitchburgh 1910; elec. motors, 4 a. c. 75-hp. 440 v. 3 ph. 60 cys. Westg. 1910; elec. generator, 300 kva. Crocker-Wheeler; pumping direct & to reservoir.

Pipe, 30 mi. 4 to 14-in. c. i.; hyd. 195, hose con. 2½ & 4-in. Smith & Eddy; valves, 130 l. h. opening various; meters, 559 Neptune; av. daily cons. 3,500,000 gal.; serv. con. 2700; ord. pres. 55 to 60 lb., fire pres. same.

CHILLICOTHE, 1,851.

THE PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS. Office, 72 W. Adams St., Chicago.

Pres., Samuel Insull.....Chicago, Ill.
V. Prests., (Frank J. Baker... " "
(Charles A. Munroe " "
(John H. Gulick... " "
Gen. Supt., George H. Lukes.. " "
Pur. Agt., George R. Jones.... " "
Supt., Keene Richards.....Lacon
Engr. P'g. Sta., E. C. Taylor...Chillicothe

Wells, 11 6-in. 35 ft. deep; ¼ mi. from center business section; no purification.

Boilers, 2 hor. return tubular 100-hp-30 lb. Heggie; hand stoking; pumps, 1, 500,000 gal. hor. comp. d. act. Tonedley, 1-500,000 gal. vert. triplex Platt 1912. 1-936,000 gal. vert. triplex Platt 1912 geared to elec. motors, 30 & 40-hp. 440v. 3 ph. 60 cys. a. c. Westg. 1912; pumping to elev. tanks (1911) 100,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 4 to 12-in. c. i.; hyd. 71, hose con. 2½-in.; valves, 31 r. & l. h. opening; meters 300 Pittsburgh; av. daily cons. 147,000 gal. 70%; serv. con. 524; ord. pres. 60 to 65 lb.; fire pres. same.

Rate; flat, $5 year, bath $3, closet $3; meter, $5 year 16,667 gal., 30c. 1000 gal.

CICERO, 14,557.

Supply from Chicago.

CLINTON, 6,000.

MUNICIPAL.

Mayor, Dr. G. S. Edmonson.....Clinton
City Engr., L. W. Lemon..... "
Supt., George Morse..... "

Wells, 4 4 to 8-in. 65 to 285 ft. deep; impounding reservoir, 600,000 gal.

Boilers, 2 tubular 150-hp. 125 lb. McMaster; pumps, 2-1,500,000 gal. comp. duplex Deane 1891; air compressor, Ingersoll-Rand.

Pipe, 12 mi. 4 to 12-in.; hyd. 85; valves, 100; meters, 865; av. daily cons. 450,000 gal.; serv. con. 865; ord. pres. 80 lb., fire pres. 90 lb.

Rates; meter, $1 quarter, 35c. 1000 gal. max., 10c. min.

COAL CITY, 2,667.

MUNICIPAL.

Town Clerk, William Bollini.....Coal City

Well, 8-in. 350 ft. deep; pumps, 1-216,000 gal. centrifugal American, 1-500,000 gal. triplex Goulds; elec. motors, two 7½ &

30-hp. Westg.; purchase energy from public Service Company of Northern Illinois; pumping to standpipe, 115,000 gal.

Pipe, 2 mi. 3 & 5-in. w. & galv. i.; hyd. 32 Crane; valves, 10; av. daily cons. 220,000 ord. pres. 20 to 26 lb., fire pres. 80 lb.

COLLINSVILLE, 7,478.

MUNICIPAL.

Comr., Sam Harrison.....Collinsville

Wells, 8 100 ft. deep.

Boilers, one 60-hp. 100 lb. Waughler, 2 50-hp. Springfield, pumps, 1-750,000 gal. comp. duplex. Deane, 1-600,000 gal. vert. Deane 1911, 1-1,080,000 gal. centrifugal driven by elec. motors, two 50 & 100-hp. G. E.; pumping to standpipe.

Pipe, 13.75 mi. 4 to 10-in.; hyd. 112; meters, 400; av. daily cons. 400,000 gal.; serv. con. 550; ord. pres. 50 to 60 lb., fire pres. same.

Rates; meter, 50c. 1000 gal. max., 6c. min.

CRESCENT CITY, 431.

MUNICIPAL.

Wells; pumping to elev. tank.

CRYSTAL LAKE, 2,400.

MUNICIPAL.

Well, 32 ft. deep; pumps, 1-31,500 gal. triplex Deming 1913; pumping to elev. tank (1913) 50,000 gal. steel.

Pipe, 9 mi. 4 & 6-in. c. i.; hyd. 75 Ludlow; valves, 25; meters, 300 Hersey; av. daily cons. 20,000 gal.; serv. con. 300; ord. pres. 50 lb.

Rates; meter, 30c. 1000 gal. max., 12c. min.

CUBA, 2,000.

MUNICIPAL.

Mayor, Mr. Felix.....Cuba
Town Clerk, V. L. Durand..... "

Well, 12 to 10-in. 1768 ft. deep; pumps, 1-198,000 gal. double act. Luitweiler geared to elec. motor, 15-hp. 220 v. 60 cys.; purchase energy from Peoria Central Illinois Light Co.; pumping to elev. tank, 60,000 gal. steel.

Pipe, 6.5 mi. 4 to 8-in. c. i.; hyd. 64; valves, 47.

CULLOM, 579.

MUNICIPAL.

Town Clerk, A. F. Eldredge.....Cullom

Well.

Pump, 144,000 gal. American d. con. to oil engine, 16-hp. R. & V.; pumping to elevated tank, 50,000 gal.

Pipe, 4 to 12-in. c. i.; hyd. 31, hose con. 2½-in. Nelson; valves, r. h. thd.; av. daily cons. 20,000 gal.; ord. pres. 40 to 50 lb., fire pres. 40 to 65 lb.

DANVERS, 593.

MUNICIPAL.

Town Clerk, C. H. Twining.....Danvers
Supt. & Engr. P'g. Sta.,
L. E. Beyer..... "

Wells, 220 ft. deep; near center distribution; no purification.

Boiler, 90-hp.; hand stoking; pumps, 2 deep well Cook; pumping to standpipe (1892) brick and steel.

Pipe, 1.25 mi. 4 to 8-in. c. i.; hyd. 50, hose con. 2½-in.; valves, 8. r h. thd.; meters, 65 National; av. daily cons. 29,700; serv. con. 65; ord. pres. 21 to 32 lb., fire pres. same.

Rates: all meter, 40c. 1000 gal.

DANVILLE, 27,871.

INTER-STATE WATER COMPANY. Supplies Germantown.

Pres., Geo. J. Long.....Louisville, Ky.
Sec., W. J. McGonigale..... " "
Supt., H. M. Ely.....Danville
Engr. P'g. Sta., M. M. Symons.. "

Impounding reservoir on north fork of Vermilion River, 100,000,000 gal. & reserve basin, 7,000,000 gal.; mechanical filters, 5,250,000 gal.; chemical, hypochlorite of calcium.

Boilers, 2 hor. tubular 12-hp. 100 lb., 2 Scotch marine 150 & 250-hp.; pumps, 1-8,000,000 gal. hor. cross comp. c. & f. wh. Snow, 1-5,000,000 gal. centrifugal, 1-5,000,000 gal.

Pipe, 77.28 mi. 4 to 24-in. c. i.; hyd; 462; valves, 470; meters, 1270; serv. con. 5500; ord. pres. 100 lb., fire pres. 115 lb.

Rates; meter, 25c. 1000 gal. max., 5c. min.

DECATUR, 31,140.

MUNICIPAL.

Supt., Harry Ruthrauff.....Decatur
Pur. Agt., H. R. Fobbins..... "

River; one mi. from center distribution; coagulating basins, 2-1,500,000 gal.; clear water basins, 2-3,000,000 gal.; chemicals, sulphate of alumina and hypochlorite of lime.

Boilers, 3 water-tube 300-hp. ea. Erie; pumps, 2-2,500,000 gal. ea. Allis C., 1-6,000,000 gal. Platt, 2-500,000,0 gal. ea. De Laval; pumping direct.

Pipe, 62 mi. 4 to 24-in. c. i.; hyd. 650 R. D. W. and Rensselaer; valves, 750 Bourbon and Rensselaer; meters, 6101 various; av. daily cons. 4,500,000 gal.; serv. con. 5828; ord. pres. 85.

Rates: meter, min. charge $1.00 quarter 8c. 1000 gal. max., 5c. min.

DEER CREEK, 400.

MUNICIPAL.

Chmn. Comrs., J. M. Davis....Deer Creek
Comr., J. Wm. Hexamer..... "
" J. P. Slytes..... "
Sec., Wm. Stout..... "

Well, 267 ft. deep; pumps, 1-155,000 gal. American gasoline engine, 12-hp. Columbus.

Pipe, one mi. 2 to 6-in.; hyd. 16, hose con. 4.in. Rensselaer; valves, 8.

Rates, meter, 50c. mo., 40c. 1000 6al.

DELAVAN, 1,175.

MUNICIPAL.

Mayor, John Colbertson.....Delavan

Wells, two 160 ft. deep; near center business section.

Boilers, one 50-hp. 110 lb. Atlas, two 100 & 150-hp. 110 lb. Atlas; pumps, 1-424,000 gal. Cook, 1-233,000 gal. Cook; pumping to elev. tank, 55,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 35 Kupferle; valves, 10; meters, 282; av. daily cons. 25,000; serv. con. 250; ord. pres. 36 to 43 lb.

Rates; meter, 25c. 750 gal. max., 10c. min.

DEPUE, 1,339.

MUNICIPAL.

Comr., F. A. Fowler.....Depue
" G. A. Bryant..... "
" A. Freya..... "
Supt. & Town Clerk,
Charles E. Pope..... "

Artesian well, 6-in. 1278 ft. deep; ¾ mi. from center distribution.

Pumps, 2 centrifugal American d. con. to elec. motors, 2 15-hp. ea. 220 v. 3 ph. 60 cys. Wagner; pumping direct.

Hyd. 75, hose con. 2½-in.; meters, 225 Pittsburgh; serv. con. 225; ord. pres. 30 lb., fire pres. 30 to 140 lb.

DES PLAINES, 2,348.

MUNICIPAL.

Chmn. Comrs.,
C. S. Stewart.....Des Plaines
Supt. & Engr. P'g. Sta.,
Samuel Watts..... " "
Cons. Engrs., Central Engrg. Bureau
Chicago

Impounding reservoir, 100,000 gal. & wells, four 8 & 10-in. 10 to 114 ft. deep; ¼ mi. from center business section.

Pumps, 1-720,000 gal. hor. American 1915 driven by elec. motor, 40-hp. American 1915; purchase energy from Public Service Company of Northern Illinois; pumping to elev. tank (1915) 150,000 gal. steel, Chicago Bridge & Iron Co.

Pipe, 2 mi. 4 to 8-in.; hyd. 100; hose con. 2¼-in.; meters, 600 Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 600; ord. pres. 60 to 70 lb., fire pres. same.

Rates; meter, $2 6 mo. 30c. 1000 gal. max., 15c. min.

DIXON, 7,216.

DIXON WATERWORKS COMPANY.

Supt., Mr. Hoefer.....Dixon
Comr., John B. Crabtree..... "

Wells, three 1630 to 1830 ft. deep & reservoir, 600,000 gal.

Pump, one cross comp. Gordon; pumping to standpipes, 2-291,000 gal.

DOLTON, 1,869.

Supply from CHICAGO.

DOWNERSGROVE, 3,000.

MUNICIPAL.

Supt., E. B. Wayts.....Downersgrove

Wells, two 12-in. 2100 ft. deep; ¾ mi. from center business section.

Pumps, 2-400,000 gal. vert. single Deming 1914, 2-500,000 gal. hor. American 1914 belted to elec. motors, 6 a. c. 2, 15 & 20-hp. 220 v. 3 ph. 60 cys. Western 1914; oil engines, two 110-hp. Snow 1914; pumping direct & to standpipe (1900) 135,000 gal.

Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 110, hose con. 2½-in. Eddy; valves, 25 l. h. opening Clow; meters, 730 Hersey & Pittsburgh; av. daily cons. 450,000 gal. 90%; serv. con. 730; ord. pres. 50 to 60 lb., fire pres. 60 lb.

Rates; meter, $1.25 quarter 2500 gal.; 50c. 1000 gal. max., 14c. min.

DU QUOIN, 6,500.

DU QUOIN UTILITY COMPANY.

Pres., R. O. Lehn.....Du Quoin
Town Clerk, Sam Clark..... " "
Supt., Jacob Mauner..... " "

Wells & impounding reservoir, 1,000,000 gal.

Pumps, 1-500,000 gal. duplex Blakeslee, 2-1,000,000 gal. comp. duplex Platt 1-430,000 gal. centrifugal driven elec. motor.

Pipe, 11 mi. 4 to 10-in. c. i.; hyd. 87; av. daily cons. 300,000 gal.; serv. con. 260.

DWIGHT, 2,156.

MUNICIPAL.

Supt., W. H. Giles.....Dwight

Impounding reservoir, 50,000 gal. & wells, three 8 to 16-in. 126 to 130 ft. deep.

Boilers, 2 hor. return tubular 40-hp. 80 lb. Allis 1892; hand stoking; pumps, 1-250,000 gal. vert. triplex Deane 1911, 2-450,000 gal. vert. Goulds 1897, 1-150,000 gal. vert. Goulds 1911, 2-450,000 gal. hor. simple duplex Deane 1892; elec. motor, 40-hp. 2200 v. a. c. 3 ph. 60 cys. Westg. 1911; gasoline engine, 25-hp. Fairbanks 1897; pumping direct & to standpipe, 50,000 gal.

Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 5, hose con. 3-in. American, Eddy & Ludlow; valves, 28 r. & l. h. opening various; meters, 300 various; av. daily cons. 225,000 gal. 50%; ord. pres. 40 to 48 lb., fire pres. 80 lb.

Rates; flat, $1.50 quarter, bath $3, closet $5; meter, 30c. 1000 gal.

EARLVILLE, 1,059.

MUNICIPAL.

Town Clerk, O. E. Fischer.....Earlville
Ch. Engr. P'g. Sta., John Harkness "

Well, 16-in. 625 ft. deep; one mi. from center distribution; no purification.

Pumps, 2-260,000 & 1,080,000 gal.; elec. motors, 3 ph.; pumping to elevated tank, 84,600 gal.

Pipe, 3 mi. 4 to 8-in.; hyd. 38, hose con. 2½-in. Crane; valves, r. h. thd.; meters, 260 National, Pittsburgh and Buffalo; av. daily cons. 80,000 gal.; serv. con. 260; ord. pres. 50 lb., fire pres. 100 lb.

Rates; flat, $6 year; meter, 30c. 1000 gal.

EAST DUBUQUE, 1,253.

MUNICIPAL.

Supt., R. T. Stewart.....East Dubuque

Artesian well, 4 to 6-in. 1343 ft. deep; near center business section; no purification.

Boilers, 2 fire-tube 25 & 65-hp. 80 & 90 lb. Brownell & Kewanee 1894; pumps, 1-1,000,000 gal. hor. comp. Worth. 1894, 1-100,000 gal. hor. Alberger 1914; steam engine, 35-hp. Atlas 1897; elec. motor, 25-hp. 440 v. 3 ph. 60 cys. G. E. 1914; energy from Union Elec. Co.; pumping to reservoir, 25,000 gal. & standpipe (1893) 72,000 gal.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 28, hose con. 2½-in. Ludlow; valves, 15 r. & l. h. opening; meters, 185 Pittsburgh; av. daily cons. 30,000 gal. 95%; serv. con. 130; ord. pres. 100 to 118 lb., fire pres. same.

Rates; meter, $1.25 quarter 5,000 gal., 25c. 1000 gal. max., 12c. min.

EAST DUNDEE, 1,500.

MUNICIPAL.

Mayor, W. L. Rahn.....East Dundee

Well, 25 ft. deep & small creek; pump, 1-500,000 gal. triplex Deming; gasoline engine, 50-hp. Otto; pumping to elev. tank.

Meters, 40; av. daily ons. 41,000 gal.; serv. con. 80; ord. pres. 65 lb., fire pres. same.

EAST MOLINE, 2,665.

PEOPLES WATER COMPANY.

Mayor, Charles Goodwin.....East Moline

Wells, two 8 & 12-in. 1340 to 1370 ft. deep & impounding reservoir, 75,000 gal.

Pumps, 1-500,000 gal. triplex Sandusky; air compressor; pumping to elev. tank, 100,000 gal. steel.

EAST ST. LOUIS, 58,547.

CITY WATER COMPANY OF EAST ST. LOUIS & GRANITE CITY. (Controlled by American Waterworks and Electric Company, 50 Broad St., New York, N. Y.)

Pres., A. M. Lynn.....New York
V. Pres., M. F. Riley..... " "
Sec., D. M. Watt..... " "
Treas., A. A. Adams..... " "
Ch. Engr., I. W. Biggs..... " "
Supt., C. M. Horner.....East St. Louis

Mississippi River; one mi. from center business section; settling & coagulating basins, 4; mech. filters, 17,000,000 gal.; chemicals, sulphate of alumina & hypochlorite of lime.

Boilers, 4 hor. tubular & water-tube 500-hp. Geary, Erie & Penn; hand stoking; pumps, 2-42,000,000 gal. Deane, Epping-Carpenter, R. D. W. & Worth.; high serv. sta.; boilers, 4 water-tube 1048-hp. Heine; pumps, 6-39,600,000 gal. Holly, Epping-Carpenter, Prescott & Worth.; pumping direct & to standpipe (1885) steel.

Pipe, 93 mi. 4 to 30-in. c. i.; hyd. 546, hose con. 2½-in. Chapman & Ludlow; valves, 700 l. h. thd. Ludlow; meters, 5771 National, Neptune & Worth.; av. daily cons. 12,000,000 gal.; serv. con. 11,056; ord. pres. 50 lb.

EDWARDSVILLE, 5,614.

EDWARDSVILLE WATER COMPANY.

Pres., John Statze.....Edwardsville
Sec.-Treas., A. E. Statze..... "

Wells, nine 6 to 9-in. 55 to 80 ft. deep; pumping to reservoir, 45,000 gal.

Boilers, two 100-hp. 80 lb.; pumps, 2-1,000,000 gal. comp. duplex Gardner; pumping to elev. tank, 84,600 gal. steel.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 113, hose con. 4-in. various; valves, 76; meters, 800; av. daily cons. 300,000 gal.; serv. con. 800; ord. pres. 50 lb.

Rates; meter, 40c. 1000 gal. max., 10c. min.

EFFINGHAM, 3,898.

EFFINGHAM WATERWORKS COMPANY.

Pres., H. A. Von Overn.....Beloit, Wis.
V. Pres., F. L. Woodard...Watertown, Wis.
Sic.-Treas., E. F. Hansen.....Beloit, Wis.
Supt. & Pur Agt.,
W. F. Anderson.....Effingham

Little Wabash River; 3 mi. from center business section; no purification.

Boilers, 2 tubular 60-hp. 100 lb. Springfield 1895; hand stoking; pumps, 2-1,000,000 gal. hor. comp L-D-G 1895, 2-750,000 gal. vert. triplex Platt 1911, 1-1,300,000 gal. vert. triplex Deane 1912; elec. motors, 3 35 & 75-hp. 220 v. 2 ph. 60 cys. G. E. 1911–12; energy from Effingham Elec. Light & Power Co.; pumping to standpipe (1895) 185,000 gal.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 101, hose con. 2½-in. Bourbon; valves, 44 r. h. opening Eddy; meters, 135 National, Neptune, Pittsburgh & Thomson; av. daily cons. 800,000 gal. 90%; serv. con. 500; ord. pres. 45 to 52 lb., fire pres. 100 lb.

Rates; flat, $12 year including bath and closet; meter, 35c. 1000 gal. max., 6c. min.

ELGIN, 25,976.

MUNICIPAL.

Comr., C. L. Kohn.....Elgin
Supt., R. R. Packin..... "

Artesian wells, 4, 1400 to 2000 ft. deep; surface well, one; 1½ mi. from center distribution; mechanical filters, 10-2,500,000 gal.; chemical, sulphate of alumina.

Boilers, 2 tubular 125-hp., one, 200-hp.; pumps, 1-6,000,000 gal. Holly, 2 comp. 1,500,000 gal. ea. Worth., 2 centrifugals 4,000,000 gal. & 2,500,000 gal.; pumping direct.

Pipe, 65 mi. 4 to 24-in. c. i.; hyd. 500 Ludlow; valves, 603 Ludlow and Eddy; meters, 520 mostly Neptune; av. daily cons. 210,000 gal.; ord. pres. 70 to 80 lb.

Rates: meter, min. charge $5 year, 15c. 100 cu. ft. max., 5¼c. min.

ELMHURST, 2,360.

ELMHURST SPRING WATER CO.

Pres. & Supt., Lee Steages.....Elmhurst
Sec., F. H. Bates..... "
Treas., John T. Emery..... "

Spring; 3 mi. from center distribution; no purification.

Pumps, 2-230,000 gal. Rumsey, belted to producer gas engines, 227-hp. ea. Otto; pumping to elevated tank, 30,000 gal., brick and wood.

Pipe, 7.5 mi. 4 to 12-in. wood & c. i.; hyd. 42, hose con. 2½-in. Roe Stephens;

valves, 15 various; meters, 450 Thomson and Worth.; av. daily cons. 200,000 gal.; serv. con. 600; ord. pres. 25 to 40 lb., fire pres. same.

Rates: flat, $8 year; meter, 30c. 1000 gal.

ELMWOOD, 1,390.

MUNICIPAL.

Supt., C. H. Rymarson.....Elmwood

St. Peters Sand Stone; ¼ mi. from center business section; impounding reservoir, 75,000 gal.

Boilers, two 100-hp. Frost; hand stoking; air compressor, 144,000 gal. Harris; elec. motors; pumping to reservoir, 50,000 gal.

Pipe, 2.75 mi.; hyd. 30, hose con. 4-in. Rensselaer; meters, 160 mostly Thomson; av. daily cons. 40,000 gal.; serv. con. 30 to 40 lb., fire pres. 80 to 90 lb.

Rates; flat, $1 quarter; meter, 50c. mo., 26.5c. 100 cu. ft. max., 15c. min.

EL PASO, 1,500.

MUNICIPAL. El Paso Electric Light & Power Company.

Mayor, Horace Baker.....El Paso

Wells, three 8-in. 121 & 123 ft. deep; 1-325,000 gal. triplex Goulds; purchase energy from Passo Elec. Light & Power Co., pumping to elev. tank, 120,000 gal.

Pipe, 5 mi. ¾ to 8-in.; hyd. 52; valves, 22; meters, 325; av. daily cons. 82,000 gal.; ord. pres. 43 lb., fire pres. same.

Rates; meter, 25c. 1000 gal. max., 15c. min.

EUREKA, 1,525.

MUNICIPAL.

Chmn. Comrs., J. H. Leys.....Eureka
City Clerk, A. V. S. Baird..... "
Supt., W. H. Hogbin..... "

Wells, 2, 10-in. 90 ft. deep; near center distribution; no purification.

Pumps, driven by elec. motor, 15-hp. 60 cys. Westg.; pumping to reservoir.

Pipe, 2½ mi. 4 to 12-in. c. i.; hyd. 14, hose con. 2½-in.; valves, 5 r. h. thd.; meter, 85 Pittsburgh and Neptune; av. daily cons. 35,000 gal.; serv. con. 100; ord. pres. 40 to 60 lb., fire pres. same.

Rates: meter, min. charge 70c. mo., 35c. 1000 gal. max., 20c. min.

EVANSTON, 24,978.

MUNICIPAL.

Mayor, James R. Smart.....Evanston
Chmn. Comrs., W. H. Knapp.... "
Comr., J. H. Moore..... "
Supt. Filtration, C. G. Gillespie.. "
Ch. Eng'r. P'g. Sta.,
George Wadsworth..... "
Chemist, Walter Lee Lewis..... "

Lake Michigan; ½ mi. from center distribution; coagulating basins, 830,000 gal.; mechanical filters, 12,000,000 gal.; chemical, sulphate of alumina.

Boilers, 3 water-tube 200-hp. Geary; hand stoking; pumps, 3 hor. 2,000,000, 5,000,000 and 12,000,000 gal. Holly, 3 centrifugal 6,000,000, 8,000,000, & 10,000,000 gal. driven by steam tubines, De Laval; pumping direct, to reservoir, 2,000,000 gal. and elevated tank, 100,000 gal., steel.

Pipe, 82.7 mi. 4 to over 30-in. c. i.; hyd. 625, hose con. 2½ & 6-in. mostly Ludlow; valves, 773 l. h. opening mostly Ludlow; meters, 1519 National and Neptune; av. daily cons. 6,000,000 gal.; serv. con. 5000; ord. pres. 40 to 50 lb., fire pres. by fire engines.

Rates: flat, $2.80 six mo., bath $1.65, closet $1.65; meter, min. charge $3 mo., 12c. 100 cy. ft. max., 5c. min.

FAIRBURY, 2,505.

MUNICIPAL.

Well, 2000 ft. deep; impounding reservoirs, 1-10,000 gal., 1-63,500 gal.

Boilers, 2 fire-tube 50-hp. 125 lb. Atlas; pumps, 1-710,000 gal. American, 1-900,000 gal. duplex Deane, 1-225,000 gal. duplex F. M.; pumping to elev. tank, 58,000 gal. steel.

Pipe, 4.5 mi. 4 to 8-in. c. i.; hyd. 58 R. D. W.; valves, 26; meters, 395; av. daily cons. 400,000 gal.; serv. con. 495; ord. pres. 45 to 48 lb., fire pres. 80 lb.

Rates; flat, $4 year; meter, $1 quarter 3000 gal.

FAIRFIELD, 2,479.

MUNICIPAL.

Mayor, Dr. J. D. Harlan.....Fairfield
City Clerk, G. W. Lewis..... "

Impounding reservoir & ponds.

Boilers, two 80 & 150-hp. 100 lb.; pumps, 1-650,000 gal. centrifugal; air compressor, 125 cu. ft.; pumping to elev. tank, 60,000 gal. steel.

Meters, 48; av. daily cons. 25,000 gal.; serv. con. 50; ord. pres. 40 lb., fire pres. 50 lb.

FARMINGTON, 2,421.

MUNICIPAL.

Supt., Chas. Bennett.....Farmington
City Clerk, J. G. Findley..... "

Well, 8-in. 1460 ft. deep; ½ mi. from center distribution.

Pumps, 3-216,000, 720,000 & 1,080,000 gal.; elec. motors, 3, 1300 to 2200 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 200,000 gal. and standpipe (1893), steel.

Hyd. 75, hose con. 3-in.; meters. 125 Neptune; av. daily cons. 25,000 gal.; serv. con. 200; ord. pres. 25 to 40 lb., fire pres. 60 to 75 lb.

Rates: flat, min. $5 year; meter, 40c. 1000 gal. max., 20c. min.

FLORA, 2,704.

MUNICIPAL.

Supt., C. N. Knight.....Flora

Wells, five 6-in. 240 ft. deep & impounding reservoir, 200,000 gal.

Boilers, three 80 & 125-hp. O'Brien, Murray & Springfield; pumps, 1-720,000 gal. centrifugal; air compressor; pumping to elev. tank, 100,000 gal. steel.

Pipe, 8.7 mi. 4 to 8-in.; hyd. 73; valves, 25; meters, 278 mostly Pittsburgh; serv. con. 278; ord. pres. 60 lb., fire pres. same.

Rates; meter, 50c. mo., 25c. 1000 gal. max., 10c. min.

FOREST PARK, 6,594.
MUNICIPAL.
Mayor, Henry J. Moher.....Forest Park
Engr. P'g. Sta., Henry Hilgenberg " "
Wells, two 10 & 14-in. 1650 & 2000 ft. deep & impounding reservoirs, 2-100,000 gal.
Pumps, 3-150,000 gal. ea. centrifugal; purchase energy from Sanatary District of Chicago; pumping to elev. tank, 22,000 gal. steel.
Meters, 1600; av. daily cons. 500,000 gal.; serv. con. 1600; ord. pres. 40 lb., fire pres. 100 lb.
Rates; meter, $1 six mo. 1000 gal.

FORRESTON, 870.
MUNICIPAL.
Mayor, Frank Wertz.....Forreston
Well, 8-in. 300 ft. deep; near center distribution; pumps, 1-215,000 gal.; gasoline engine, 10-hp.; pumping to elev. tank, 62,000 gal. wood.
Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 27 Ludlow & R. D. W.; valves, 8; av. daily cons. 57,500 gal.; serv. con. 135; ord. pres. 50 lb., fire pres. same.
Rates; flat, $3 year.

FREIBURG, 1,397.
MUNICIPAL.
Supt. & Engr. P'g. Sta.,
Oliver Hankammer.....Freiburg
Pond; one mi. from center distribution.
Pump, 285,000 gal. Luitweiler; elec. motor, 13-hp. 220 v. d. c.; pumping to standpipe (1904).
Hyd., hose con. 2-in.; meters, 12 Crane; av. daily cons. 36,000 gal.; serv. con. 100; ord. pres. 52 lb., fire pres. 60 lb.
Rates: flat, min. $4 year; meter, 40c. 400 bbl.

FREEPORT, 17,567.
THE FREEPORT WATER COMPANY.
Pres., M. Stoskopf.....Freeport
V. Pres., J. H. Snyder..... "
Treas., Addison Bidwell..... "
Sec., Supt. & Engr. P'g. Sta.,
Owen T. Smith..... "
Wells, 27, 2½ to 15-in. 35 to 300 ft. deep; ½mi. from center distribution; settling basins, 2, 25 ft. in diam.; mechanical filters, 4,000,000 gal.; chemical, lime.
Boiler, 3 hor. tubular 400-hp. Erie and Springfield; hand stoking; pumps, 2-4,000,000 gal., 3-8,750,000 gal. Snow, Holly, Knowles and Epping-Carpenter; pumping to standpipe (1913), steel.
Pipe, 45.44 mi. 4 to 16-in. c. i.; hyd. 340, hose con. 2½ & 4½-in. R. D. W., Smith and Ludlow; valves, 605 l. h. thd. R. D. W. & Ludlow; meters, mostly Thomson; ord. pres. 40 to 90 lb., fire pres. 60 to 110 lb.

GALENA, 4,835.
INTERSTATE PUBLIC SERVICE CO. Office, 508 Board of Trade Bldg., Indianapolis, Ind. (Controlled by Middle West Utilities Co., 114 West Adams St., Chicago, Ill.)
Pres., Chester P. Wilson.....Indianapolis
V. Pres., George H. Voigt..... "
Sec. & Treas., Ira E. Guthrie.. "
Local Mgr., C. C. Dunlap.....Galena
Well.
Boilers, 2 tubular 100-hp.; hand stoking pumps, 2-2,000,000 gal.; pumping to reservoirs, 2-25,000 gal. and standpipe (1886), steel.
Pipe, c. i.; hyd. 85, hose con. 2½-in. Ludlow; valves, l. h. thd.; serv. con. 550; ord. pres. 35 to 85 lb., fire pres. 45 ot 95 lb.
Rates: meter, 50c. 1000 gal. max., 15c. min.

GALESBURG, 24,000.
MUNICIPAL.
Supt., T. H. Snowball.....Galesburg
Wells, 8; reservoirs, 2-6,047,000 gal.
Pumps, 2-1,000,000 gal. ea. c. & f. wh. Holly, 1-6,000,000 gal. hor. cross-comp. c. & f. wh.; air compressor; pumping to standpipe, 175,000 gal.
Pipe, 100 mi. 4 to 16-in. c. i.; hyd. 483; meters, 2600; av. daily cons. 700,000 gal.; serv. con. 2600; ord. pres. 50 lb., fire pres. 120 lb.
Rates; meter, 50c. mo. 1000 gal. max. charge, 10c. min.

GALVA, 2,500.
MUNICIPAL.
Supt., E. A. Emery.....Galva
Wells, two 1500 & 1535 ft. deep; near center business section; impounding reservoirs, 2-176,000 gal.
Boilers, 2 water-tube 120-hp. ea. Kewanee; pumps, 2-144,000 gal., 1-150,000 gal. duplex Deane, 1-100,000 gal. duplex Deane; elec. motor, 120 kw. 2200 v. Warren; pumping to elev. tank, 36,090 gal. steel.
Pipe, 4 mi. 4 to 8-in. c. i.; meters, 500; av. daily cons. 100,000 gal.; serv. con. 600; ord. pres. 40 to 45 lb., fire pres. 80 to 100 lb.
Rates; meter, 20c. 1000 gal. max., 10c. min.

GENEVA, 2,451.
MUNICIPAL.
Chmn. Comrs., John Burguist.....Geneva
Supt., Olof Peterson..... "
Well, 8-in. 850 ft. deep ;near center distribution; reservoir, 100,000 gal.
Boilers, 3 return tubular 310-hp. Erie; hand stoking; pumps, 3-3,260,000 Deane; elec. motors, 15 kw. 220 v. 3 ph. 60 cys. Wagner; pumping direct.
Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 130, hose con. 2½-in.; meters, 550 various; av. daily cons. 350,000 gal.; serv. con. 550 ord. pres. 48 lb., fire pres. 100 lb.
Rates: meter, 12½c. 100 gal. max., 3½c. min.

GENOA, 1,257.
MUNICIPAL.
Supt., L. C. Duval.....Genoa
Well, 10-in. 1500 ft. deep; near center distribution.
Pump, 1-36,000 gal. Keystone Driller

belted to gasoline engine, 30-hp. F. M. 1900; pumping to elev. tanks, 2-14,000 gal.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 41, hose con. 2½-in. Rensselaer; valves, 33 r. h. opening Rensselaer; meters, 257 Pittsburgh & Thomson; av. daily cons. 50,000 gal. 80%; serv. con. 275; ord. pres. 50 to 65 lb., fire pres. 95 lb.

Rates; meter, $1 quarter 5000 gal., 25c. 1000 gal. max., 7c. min.

GIBSON CITY, 2,086.

MUNICIPAL.

Mayor, T. J. Swanson.....Gibson City

Wells, three 55 ft. deep & impounding reservoir, 115,000 gal.

Boilers, two 60-hp. 80 lb. Erie; pumps, 1-500,000 gal. comp. duplex Deane, 1-1,000,000 gal. duplex Deane; pumping to elev. tank, 45,000 gal.

Pipe, 5 mi. 4 & 6-in.; hyd. 36; meters, 210; av. daily cons. 175,000 gal.; serv. con. 210; ord. pres. 35 lb., fire pres. 90 lb.

Rates; meter, $1 quarter, 30c. 1000 gal. max., 75c. min.

GILMAN, 1,305.

MUNICIPAL.

Supt., R. S. Harris.....Gilman

Wells, six 120 ft. deep & impounding reservoirs, 2-110,000 gal.

Boilers, 2 fire-tube 45-hp. Chandler-Taylor; pumps, 1-192,000 gal. duplex L-D-G; air compressor; pumping to elev. tank, 52,000 gal. steel.

Pipe, 2.2 mi. 4 to 8-in.; hyd. 34 Beaumont & Ludlow; meters, 233; av. daily cons. 75,000 gal.; serv. con. 233; ord. pres. 45 lb., fire pres. 60 to 75 lb.

Rates; meter, $4 year 18,250 gal.

GLENCOE, 1,899.

Supply from WINNETKA.

GLEN ELLYN, 1,763.

MUNICIPAL.

Supt., J. S. Arnold.....Glen Ellyn

Well, 8-in. 310 ft. deep & impounding reservoir, 70,000 gal.

Boilers, two 50-hp.; pumps, 1-676,000 gal. duplex F. M.; air compressor; pumping to elev. tank, 60,000 gal. steel.

Pipe, 17.2 mi.; hyd. 146 Eddy & Ludlow; meters, 500; av. daily cons. 83,645 gal.; serv. con. 500.

Rates; meter, $1.50 quarter, 20c. 1000 gal.

GOLCONDA, 1,088.

GOLCONDA LIGHT & WATER CO.

Pres., J. O. Williamson.....Golconda
V. Pres., Mrs. Lucy Gilbert..... "
Sec., Supt. & Mgr.,
R. H. Williamson..... "

Have discontinued water service.

GRANITE CITY, 9,903.

CITY WATER COMPANY OF EAST ST. LOUIS & GRANITE CITY. (Owned by American Waterworks and Electric Company, 50 Broad St., New York, N. Y.)

Pres., A. M. Lynn.....New York, N. Y.
V. Pres., M. F. Riley..... " " " "
Sec., D. M. Watt..... " " " "
Treas., A. A. Adams..... " " " "
Ch. Engr., G. W. Biggs, Jr. " " " "
Supt., A. B. Lynn..... Granite City

Mississippi River & wells, 12 10-in. 48 ft. deep; four mi. from center distribution; coagulating basins, 2-5,000,000 gal.; chemicals, sulphate of alumina & hypochlorite of lime.

Boilers, 3 water-tube 250-hp. ea. Heine; hand stoking; pumps, 7-25,000,000 gal. Worth. and Platt; pumping direct.

Pipe, 41 mi. 4 to 30-in. c. i.; hyd. 200, hose con. 2½-in. Ludlow; valves, r. h. opening Ludlow; meters, 1600 Neptune, Hersey and National; av. daily cons, 3,750,000 gal.; serv. con. 3100; ord. pres. 30 to 60 lb., fire pres. 80 to 100 lb.

GRANT PARK, 692.

Supply from CHICAGO.

GRAYVILLE, 1,940.

MUNICIPAL.

Mayor, E. O. Ellis.....Grayville

Wabash River & wells; no purification.

Boilers, 2 fire-tube 70-hp. 60 & 80 lb.; pumps, 1-1,000,000 gal. comp. duplex Epping-Carpenter; elec. motor, 100 kw. 2400 v. 3 ph. Westg.; pumping to elev. tank, 40,000 gal. steel.

Pipe, 5 mi. 4 to 8-in.; hyd. 48; meter, one; av. daily cons. 800,000 gal.; serv. con. 170; ord. pres. 82 lb., fire pres. same.

Rates; flat.

GREENUP, 1,224.

MUNICIPAL.

Comr., Wm. Morris.....Greenup
" Ed. Hayden..... "
" F. T. Benson..... "
Supt., D. H. Rowe..... "
Town Clerk, E. G. Button..... "

Embarras River.

Pumps, 360,000 & 576,000 gal. Deane; oil engine, 40-hp. Springfield; elec. motor, 15 kw. 2200 v. 3 ph. 60 cys. Westg.; pumping to standpipe (1897), steel.

Pipe, 2½ mi. 4 to 12-in. c. i.; hyd. 26; hose con. 2½-in. Roe Stephens; valves, 26 r. h. thd. Roe Stephens; meters, 24 Buffalo and Thomson; av. daily cons. 40,000 gal.; ord. pres. 40 to 60 lb., fire pres. same.

Rates: meter, 25c. 1000 gal.

GREENVIEW, 921.

MUNICIPAL.

Comr., H. A. Pierson.....Greenview

Well, 8 ft. in diam. 40 ft. deep; near center distribution; no purification.

Pumps, 1-216,000 gal. Goulds belted to gasoline engine, 8-hp. F. M.; pumping to elev. tank, 40,000 gal. steel.

Pipe, 1.25 mi. 4-in. c. i.; hyd. 23, hose con. 2½-in. R. D. W.; valves, 6 r. h. thd.; av. daily cons. 15,000 gal.; serv. con. 75; ord. pres. 35 to 40 lb., fire pres. 45 to 60 lb.

Rates; flat, $4 year.

GREENVILLE, 3,178.

MUNICIPAL.

Mayor, Dr. A. M. Keith.....Greenville

Wells, two 50 ft. deep & impounding reservoir, 45,000 gal.

Pumps, 2 double act. Hill driven by elec. motor, 2-500,000 gal. ea. duplex Harris; pumping to elev. tank, 50,000 gal.

Pipe, 3 mi. 3 to 8-in.; hyd. 39; meters, 110; av. daily cons. 100,000 gal.; serv.con. 155; ord. pres. 40 to 90 lb., fire pres.same.

Rates; meter, $1 quarter, 50c. 1000 gal. max., 35c. min.

HARRISBURG, 5,309.

CENTRAL ILLINOIS PUBLIC SERVICE COMPANY. Office, Mattoon, Ill. For officers see Mattoon. (Controlled by Middle West Utilities Co., 112 W. Adams St., Chicago, Ill.)

Supt., L. F. Payne.....Harrisburg

Ch. Engr. P'g. Sta.,

Geo. W. Lilley..... "

Saline River; 2 mi. from center distribution; impounding reservoir, 40,000,000 gal.; slow sand filter, 900,000 gal.; mechanical filters, 900,000 gal. Continental; chemicals, hypochlorite of lime and sulphate of alumina.

Boilers, 2 hor. tubular, 125-hp. Atlas; hand stoking; pumps, 2 steam duplex, 720,000 gal. Platt and Worth.; one power triplex Platt and one centrifugal Yeomans 720,000 gal. belted to elec. motors, 15 & 20-hp. 220 v. single ph. 60 cys. Wagner; pump-ind direct, to reservoir, 80,000 gal. and elevated tank, 75,000 gal., steel.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. Bourbon & Ludlow; valves, 41 r. h. thd. Crane; meters, 49 Neptune; av. daily cons. 500,000 gal.; serv. con. 500; ord. pres. 35 to 59 lb., fire pres 90 to 125 lb.

Rates: meter, 25c. 1000 gal. max., 9c. min.

HARVARD, 3,008.

MUNICIPAL.

Supt. & Engr. P'g Sta.

W. J. Bowman.....Harvard

Wells, two 10-in. 1800 ft. deep; ¼ mi. from center business section; no purification.

Pumps, 1-175,000 gal. vert. double act. Goulds 1910, 1-450,000 gal. vert. Luitweiler 1913, 1-500,000 gal. vert. triplex Goulds 1910, 1-720,000 gal. hor. Keystone-Driller; geared to elec. motors, 4 a.c. 15, 20, 25 & 3-hp. 220 v. 3 ph. 60 cys. G. E. 1913; gasoline engine, 25-hp. International 1913; purchase energy from Illinois Northern Utility Co.; pumping to elev. tank (1907) 100,000 gal. steel.

Pipe, 8-in. c. i.; hyd. 45, hose con. 3-in.; valves, 40 r. h. opening; meters, 600 various; av. daily cons. 200,000 gal. 85%; serv. con. 568; ord. pres. 65 to 70 lb., fire pres. 75 to 100 lb.

Rates; meter, $3.75 six mo. 1000 cu. ft., 37.5c. 100 cu. ft. max., 13.5c. min.

HARVEY, 7,227.

PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS. Office, 72 W. Adams St., Chicago.

Pres., Samuel Insull.....Chicago

V. Pres., Frank J. Baker..... "

" " Charles A. Munroe..... "

" " John H. Gulick..... "

Gen. Supt., George H. Lukes..... "

Pur. Agt., George R. Jones..... "

Supt., O. L. Hyatt.....Harvey

Wells, three 6-in. 1260 to 1300 ft. deep; near center business section; no purification.

Boiler, water-tube 100-hp. 160 lb. B. & W.1905; hand stoking; pumps, one hor. simple d. act. Worth., one hor. comp. d. act. Worth., 2 hor. d. act. B. J., 2 hor. d. act. American driven by elec. motors, one a. c. 50-hp. 440 v. 3 ph. 60 cys. Westg., one a. c. 100-hp. 440 v. 3 ph. 60 cys. Ft. Wayne, one a. c. 200-hp. 440 v. 3 ph. 60 cys. G. E.; pumping direct & to standpipe (1891).

Pipe, 18 mi. 4 to 10-in c. i.; hyd. 176, hose con. 2½-in. Chapman; meters, 1158 National, Neptune & Pittsburgh; av. daily cons. 270,740 gal. 75%; serv. con. 1164; ord. pres. 35 to 45 lb., fire pres. 75 to 90 lb.

Rates; meter, $5 year, 30c. 1000 gal. max., 10c. min.

HAVANA, 3,525.

MUNICIPAL.

Supt., Felix Purty.....Havana

Wells, 10 75 ft. deep; pumps 2-250,000 gal. comp. duplex Deane.

HENNEPIN, 451.

MUNICIPAL.

Pres. Town Board, J. W. Turner..Hennepin

Town Clerk,

Geo. M. Cunningham..... "

Artesian well, 800 ft. deep.

Gravity distribution from elevated tank, 20,000 gal., wood.

Pipe, 1950 ft. 4-in. c. i.; hyd. 5, hose con. 3-in.

Rates: flat, $5 year.

HENRY, 1,687.

MUNICIPAL.

Supt., Geo. Halblieb.....Henry

Wells, three 8-in. 40 ft. deep; pumps, 2-500,000 gal. rotary Root; air compressors, 2 Bruner; elec. motor, 30-hp. Westg.; gasoline engine, 20-hp. Waterloo; purchase energy from Public Service Co. of Northern Illinois.

Pipe, 6 mi. 2 to 10-in. c. & w. i.; hyd. 45; valves, 24; meters, 114; serv. con. 365; ord. pres. 37 to 62 lb., fire pres. 100 lb.

Rates; meter, $1.50 quarter 4000 gal., 37.5c. 1000 gal. max., 7.5c. min.

HERRIN, 6,861.

MUNICIPAL.

Comr., J. F. Goalby.....Herrin

" H. A. Tate..... "

" R. A. Maxwell..... "

Supt., C. S. Brown..... "

Des. Engr., R. K. Adams.....Herrin
Impounding reservoir, 150,000,000 gal.; 3 mi. from center distribution.
Boilers, 2 tubular 150-hp. ea. Springfield; hand stoking; pumps, 2-720,000 gal. ea. Epping-Carpenter; pumping to standpipe (1911) iron.
Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 112, hose con. 2½-in. Rensselaer; valves, 70 r. h. thd. Rensselaer; meters, 897 Thomson; av. daily cons. 450,000 gal.; serv. con. 967; ord. pres. 55 to 62 lb., fire pres. 100 lb.
Rates: flat, 50c. mo.; meter, min. charge 50c. mo., 18c. 1000 gal. max., 6c. min.

HIGHLAND PARK, 4,209.
MUNICIPAL.
Cons. Engr., Robt. Russell.....Lake Forest
Engr. P'g. Sta.,
Gustav Krueger.....Highland Park
Lake Michigan; ½ mi. from center distribution; settling basin, 300 cu. ft.
Boilers, 2 tubular 70-hp. 95 lb. Krochell 1893; hand stoking; pumps, 2-1,500,000 gal. hor. simple comp. d. act. Deane 1893, 1-1,000,000 gal. hor. simple c. & f. wh. Allis-C. 1911; pumping to standpipe (1893) 150,000 gal.
Pipe, 32 mi. 4 to 12-in. c. i.; hyd. 118, hose con. 2½-in. Eddy, Ludlow & R. D. W.; valves, 220 r. & l. h. opening Ludlow; meters, 850 National & Neptune; av. daily cons. 950,000 gal. 95%; s' v. con. 1100; ord. pres. 50 to 65 lb., fire pres. same.
Rates; meter, $4 year, 12c. 100 cu. ft. max., 8c. min.

HIGHWOOD, 1,219.
Supply from HIGHLAND PARK.

HILLSBORO, 3,42.
MUNICIPAL.
Mayor, H. C. Latham.....Hillsboro
Des. Engr., W. D. P. Warren..... "
Impounding reservoir; pumps, 2-840,000 gal. duplex Worth.; elec. motor, 50-hp.; pumping to elev. tank, 61,000 gal. steel.
Pipe, 3 mi. 4 to 8-in.; hyd. 35; meters, 300; av. daily cons. 500,000 gal.; serv. con. 275; ord. pres. 40 to 60 lb., fire pres. 140 lb.

HINCKLEY, 661.
MUNICIPAL.
Supt., J. Clark.....Hinckley
Wells, 12-in. 708 ft. deep; pumps, 1-288,000 gal. American, 1-576,000 gal. American; elec. motors, two 15 & 40-hp. 440 v. 3 ph. 60 cys. Westg.; pumping to elev. tank, 60,000 gal. steel.
Pipe, 1.5 mi. 4 to 8-in. c. i. ;hys. 22 Kupferle; valves, 10; meters, none; av. daily cons. 70,000 gal.; serv. con. 175; ord. pres. 35 lb., fire pres. 130 lb.
Rates; flat, $4 year, bath $1 closet $2.

HINSDALE, 2,451.
MUNICIPAL.
Mayor, J. C. Wood.....Hinsdale
Chmn. Comrs., E. F. Hasbrook... "
Supt. & Ch. Engr. P'g. Sta.,
H. H. Bristol.....Hinsdale
Well; reservoir, 35,000 gal.
Boilers, 2, 400-hp. B. & W.; mechanical stokers, model; pumps, 2-2,000,000 gal. L.-D.-G. and Platt; pumping to standpipe (1894), brick and iron.
Pipe, 30 mi. 4 to 12-in.; hyd. 200, hose con. 2½-in. r. & l. thd. Eddy; meters, 750 National and Badger; av. daily cons. 300,000 gal.; serv. con. 750; ord. pres. 40 to 60 lb., fire pres. 60 lb.
Rates: meter, 25c. 1000 gal. max., 10c. min.

HOMEWOOD, 713.
MUNICIPAL.
Vil. Pres., Louis Miller.....Homewood
Well; pumps, 1-600,000 gal. double act. American; elec. motor, 25-hp. Westg.; pumping to elev. tank (1911) 80,000 gal. steel.
Pipe, 6 mi. 6 to 10-in.; meters, 100; av. daily cons. 40,000 gal.; serv. con. 100; ord. pres. 45 lb.
Rates; meter, 25c. 1000 gal. max., 10c. min.

HOOPESTON, 5,000.
MUNICIPAL.
Mayor, I. E. Merritt.....Hoopeston
Wells & impounding reservoirs, 2-110,000 gal.
Boilers, 2 fire-tube 80-hp.; pumps, 1-300,000 gal. Deane, 1-200,000 gal. Marsh, 2-1,500,000 gal. comp. duplex Deane; hyd. 87; meters, 210; av. daily cons. 500,000 gal.; serv. con. 1800.
Rates; meter, $6 year, 35c. 1000 gal. max., 20c. min.

JACKSONVILLE 16,000.
MUNICIPAL.
Comr., Joe Brennon.....Jacksonville
City Engr., E. M. Henderson.. "
Impounding reservoirs, 2-64,000,000 gal. on Morgan Lake & wells, five 58 to 74 ft. deep.
Pumps, 5 American, 1-2,000,000 gal. duplex Worth., 1-2,000,000 gal. comp. duplex Platt, 1-2,000,000 gal. Fairbanks, 1-1,000,000 gal. F. M. driven by elec. motors, two 75 & 150-hp. Westg. & Fairbanks, pumping to standpipe, 50,000 gal.; av. daily cons. 976,000 gal.

JERSEYVILLE, 4,113.
MUNICIPAL.
Mayor, A. C. Rabb.....Jerseyville
Impounding reservoir, 148,000 gal. & wells, two 1542 to 2003 ft. deep.
Boilers, two 125-hp. Atlas 1905 & O'Brien 1908; pumps, 1-2,888,000 gal. single duplex Deane, 1-763,000 gal. comp. duplex Worth.; air compressor, Pneumatic; pumping to elev. tank, 31,000 gal. steel.
Pipe, 4.43 mi. 4 to 8-in. c. i.; hyd. 52 R. D. W.; valves, 22; meters, 30; av. daily cons. 130,000 gal.; serv. con. 244.
Rates; flat, $5 year, closet $6; meter, 40c. 1000 gal. max., 20c. min.

JOHNSTON CITY, 5,500.

CENTRAL ILLINOIS PUBLIC SERVICE COMPANY. Office, Matton.

Loc. Supt., A. D. Kerr.....Johnston City

Well, 6-in. 1100 ft. deep; ¾ mi. from center business section; no purification.

Hyd. 44, hose con. 2½-in. Crane & Kupferle; valves 3 r. h. thd. Crane; meters, 6 Neptune; av. daily cons. 50,000 gal.; serv. con. 125; ord. pres. 50 to 60 lb., fire pres. 90 to 120 lb.

Rates; meter, 60c. 1000 gal. max., 50c. min.

JOLIET, 34,670.

MUNICIPAL.

City Engr., C. D. O'Callahan.....Joliet
Op. Mech. Engr., John Graham..... "

Artesian wells, 9, 9-in. 1600 ft. deep; no purification.

Boilers, 12, 300-hp. Sterling; hand stoking; pumps, one hor. com. 3,000,000 gal. L.-D.-G., 2-1,500,000 gal. Allis C., 5-6,000,000 gal. Deane and Goulds; pumping direct and to reservoirs, 2-5,500,000 gal.; elevated tank, steel.

Pipe, 43 mi. 4 to 30-in.; hyd. 300, hose con. 2½-in. Eddy, Ludlow and Roe Stephens; valves, 500 l. h. thd; meters, 4700 Neptune, Pittsburgh and National; av. daily cons., 5,500,000 gal.; serv. con. 4700 ord. pres. 25 to 75 lb., fire pres. 100 lb.

Rates: meter, 12c. 1000 gal. max., 8c. min.

KANKAKEE, 13,986.

NORTHERN ILLINOIS WATER CO. Office, 93 Exchange Place, Portland, Me.

Pres. A. T. Dunbar.....Portland, Me
Treas., E. R. Payson..... " "
Clerk, H. M. Verrill..... " "
Supt. & Ch. Engr. P'g. Sta.,
C. H. Cobb.....Kankakee

Kankakee River; one mi. from center distribution; coagulation basin, 200,000 gal.; mechanical filters, 4,000,000 gal.; chemicals, sulphate of alumina and hypochlorite of lime.

Boilers, 3 tubular 100-hp. ea.; pumps, 3-7,000,000 gal.; pumping to standpipe (1885), w. i.

Pipe, 30 mi. 4 to 12-in.; hyd. 260, hose con. 2-in.; valves, 170 r. & l. h. thd. Ludlow; meters 300 various; av. daily cons. 2,000,000 gal.; serv.-con. 3500; ord. pres. 70 to 89 lb., fire pres. 90 to 125 lb.

Rates: flat, $12 year; meter, 25c. 1000 gal. max., 10c. min.

KEITHSBURG, 1,500.

MUNICIPAL.

Mayor, J. Ward Bloomer.....Keithsburg
Supt., Ed. Ott, Sr..... "

Wells, 12 6-in. 40 ft. deep; near center business section.

Pipe, 3 mi. 4 to 8-in.; meters, 20; av. daily cons. 40,000 gal. 20%; serv. con. 120.

Rates; meter, 75c. quarter gal.

KEMPTON, 269.

MUNICIPAL.

Supt., G. M. Devereaux.....Kempton

Well, 6-in. 408 ft. deep.

Pump, 21,600 gal. belted to gasoline engine, 5-hp. F. M.; pumping to elevated tanks, 2-15,000 gal.

Hyd. 13, hose con. 3½ & 4-in.; meters, 80 Worth.; av. daily cons. 4000 gal.; serv. con. 80; ord. pres. 15 to 40 lb., fire pres 90 lb.

KENILWORTH, 881.

Privately owned.

Owner, Joseph Sears.....Kenilworth
Supt., Chas. Mark..... "

Reservoir, 16,000 gal.; mech. filters, 500,000 gal.; chemical, hypochlorite of lime.

Boiler, fire tube; pumps, 1-200,000 gal. duplex Deane, 1-400,000 gal. triplex Goulds driven by gasoline engine; pumping to elev. tank, 29,000 gal. steel.

Pipe, 5 mi. 4 & 6-in.; meters, 200; av. daily cons. 100,000 gal.; serv. con. 200.

Rates; meter, $10 year, 25c. 1000 gal. max., 12.5c. min.

KEWANEE, 16,000.

MUNICIPAL.

Comr. Pub. Property,
C. A. Dunbar.....Kewanee
Asst. Supt., E. F. Ingham..... "
Engr. P'g. Sta., Wm. Minks..... "

Wells, three 4 to 8-in. 1460 ft. deep; near center distribution; impounding reservoir, 1,500,000 gal.; no purification.

Boilers, 4 return tubular 100-hp. ea. Kewanee; hand stoking; pumps, 1-1,000,000 gal. comp. duplex Buffalo.

Pipe, 21 mi. c. i.; hyd. 250, hose con. 2½-in. Eddy & Ludlow; valves, 200 l. h. thd. Ludlow; meters, 1175 various; av. daily cons. 400,000 gal.; serv. con. 1175; ord. pres. 30 to 40 lb., fire pres. 75 to 90 lb.

Rates; meter, min. charge $1 mo.

KIRKWOOD, 926.

MUNICIPAL.

Mayor & Supt., C. H. Mundorff..Kirkwood

Wells, two 127 & 216 ft. deep; near center business section; boiler; pumps, 1-100,000 gal. steam Cook; pumping to standpipe, 60,000 gal.

Pipe, 1.19 mi. 4 to 8-in.; hyd. 19; valves 10; av. daily cons. 3000 gal.; serv. con. 40.

Rates; meter, min. charge 50c. mo., 40c. 1000 gal.

KNOXVILLE, 1,818.

MUNICIPAL.

Mayor, H. J. Butts.....Knoxville
Des. Engr., C. F. Sturtevant..... "

Well, 1350 ft. deep & impounding reservoir, 50,000 gal.; pumps, 1-600,000 gal. duplex Gardner, 1-175,000 gal. Downie; elec. motor, 20-hp. 220 v. 3 ph. 60 cys. Ft. Wayne; purchase energy from Knoxville Elec. Light & Power Co.; pumping to elev. tank, 34,000 steel.

Pipe, 5 mi.; hyd. 39; valves 25; meters, 265.

Rates; meter, 25c. 1000 gal.

LACON, 1,495.

MUNICIPAL.

Mayor, John I. Thompson.....Lacon
Town Clerk, Cook Ganett..... "

Wells, two 60 ft. deep; pumps, 2-300,000 gal. American driven by elec. motor, 20-hp. G. E.; purchase energy from Public Service Co. of Northern Illinois; pumping to elev. tank, 65,000 gal. steel.

Pipe, 4.6 mi. 4 to 10-in. c. i.; hyd. 64; valves, 9; meters, 150 Neptune; av. daily cons. 130,000 gal.; serv. con. 284; ord. pres. 26 to 67 lb.

Rates; meter, 40c. 1000 gal. max., 10c. min.

LADD, 1,910.

MUNICIPAL.

Town Clerk, Henry Dwyer.....Ladd

Artesian well; ½ mi. from center distribution.

Boiler, 30-hp.; hand stoking; pumps, 2-120,000 gal. Goulds; pumping to standpipe (1910), steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 18; hose con. 2½-in.; meters, 125 Neptune; av. daily cons. 75,000 gal.; serv. con. 125; ord. pres. 50 to 70 lb., fire pres. 70 to 125 lb.

Rates: all meter, 25c. 100 cu. ft. max., 10c. min.

LA GRANGE, 5,282.

PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS. Office, 72 West Adams St., Chicago.

Pres., Samuel Insull.....Chicago
V. Prests. (Frank J. Baker..... "
(Charles A. Munroe.... "
(John H. Gulick..... "
Gen. Supt., George H. Lukes..... "
Pur. Agt., George R. Jones..... "
Supt., H. L. Rudd.....Oak Park
Engr. P'g. Sta., C. M. French...La Grange

Wells, 4 to 16-in. 2000 ft. deep; near center business section; no purification.

Boiler, water-tube 150-hp. Heine; hand stoking; pumps, one hor. comp. d. act. Worth., 2-600,000 gal. hor. centrifugal B. J. 1904, 2-1,300,000 gal. American 1910, 2 vert. B. J., one vert. American, d. con. to elec. motors, one 50-hp. 440 v. 3 ph. cys. Westg., one 100-hp. 440 v. 3 ph. 60 cys. Ft. Wayne, 2 25-hp. v. 3ph. 60 cys. Westg., one 75-hp. 440 v. 3 ph. 60 cys. Westg.; pumping direct & to standpipe, 155,000 gal.

Pipe, 23 mi. 8 to 12-in. c. & galv. i; hyd. 171, hose con. 2½-in. Eddy & Ludlow; valves, 164 l. h. opening Eddy, Ludlow & Crane; meters, 14 National, Hersey, Neptune, Pittsburgh & Thomson; av. daily cons. 438,450 gal. 80%; serv. con. 1416; ord. pres. 45 to 50 lb., fire pres. 45 to 90 lb.

Rates; meter, $1.75 quarter, 28c. 1000 gal. max., 13½c. min.

LA HARPE, 25,000.

MUNICIPAL.

Supt., Guy Mesecher.....La Harpe

Wells, two 47 to 57 ft. deep; pump, 1-880,000 gal. Goulds; pumping to standpipe (1895) 35,000 gal. wood.

Hyd. 15, hose con. 4-in.; av. daily cons. 25,000 gal.; serv. con. 102; ord. pres. 30 to 35 lb., fire pres. 90 to 110 lb.

Rates; meter, 30c. 1000 gal.

LAKE BLUFF, 726.

MUNICIPAL.

Vil. Pres., J. H. Howard.....Lake Bluff
Town Clerk,
De Witt F. Witherstone..... " "

Wells, two 4 & 6-in. 300 & 2000 ft. deep; pumps, one single act. Erbe, one centrifugal driven by gasoline engine, 10-hp. Ohio; elec. motor, 10 kw. G. E.; pumping to elev. tank.

Pipe, 5 mi. 4 to 6-in.; hyd. 45; serv. con. 200; ord. pres. 20 lb., fire pres. same.

LAKE FOREST, 3,800.

LAKE FOREST WATER COMPANY. Office, Manhattan Bldg., Chicago, Ill.

Pres., Geo. H. Holt.....Chicago
Sec.-Treas., C. M. Trowbridge..... "
Gen. Mgr., E. P. Wheeler..... "
Supt., L. C. Trow.....Lake Forest

Lake Michigan; settling basin, 400,000 gal.; mech. filter, 600,000 gal.; chemical, hypochlorite of lime.

Pumps, 1-2,000,000 gal. comp. duplex Gordon, 1-1,000,000 gal. comp. duplex Deane, 2-2,200,000 gal. American, driven by elec. motors, two 50 & 125-hp. G. E.; pumping to standpipe, 120,000 gal.

Pipe, 19.65 mi. 4 to 10-in. c. i.; hyd. 109; valves, 74; meters, 690; serv. con. 690.

LAKE ZURICH, 304.

MUNICIPAL.

Supt., Wm. C. Prehm.....Lake Zurich
Clerk, J. D. Fink..... " "

Artesian well, 6-in. 214 ft. deep; no purification.

Pump, 216,000 gal. Keystone belted to elec. motor, 10-hp. 220 v. single ph. 60 cys. Wagner; elec. energy from Public Service Co. of Nor. Ill.; pumping to standpipe (1911), steel, and elevated tank, 50,000 gal., steel.

Pipe, 1½ mi. 4 to 12-in. c. i.; hyd. 18, hose con. 2½-in.; valves, 10 r. h. thd.; meter, 25 Pittsburgh; av. daily cons. 4000 gal.; serv. con. 25; ord. pres. 56 lb., fire pres. same.

Rates: all meter, min. charge $1.50 quarter, 30c. 1000 gal.

LANARK, 1,175.

MUNICIPAL.

Engr. P'g. Sta., E. A. Grove.....Lanark

Impounding reservoir, 47,000 gal. & well, 600 ft. deep.

Boiler, 60-hp. 100 lb. Cullen; pumps, 1-173,000 gal. vert. single Platt, 1-360,000 gal. duplex Smedley; pumping to elev. tank, 45,000 gal. wood.

Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 33 Ludlow & R. D. W.; valves, 13; meters; av. daily cons. 70,000 gal.; serv. con. 150.

Rates; flat, $5 year, closet $3; meter, 40c. 1000 gal. max., 15c. min.

LA SALLE, 11,537.

MUNICIPAL.

Supt., E. Byrne.....La Salle
Cons. Engr., D. W. Mead...Madison, Wis.

Ch. Engr. P'g. Sta., Wm. Koenig..La Salle
Wells along Illinois River, 3, 7½ to 14 ft. in diam. 40 ft. deep; near center distribution; no purification.
Boilers, 4 fire-tube 125-hp. ea. Kewanee; hand stoking; pumps, 2-2,500,000 gal. ea. Holly and Worth.; pumping direct.
Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 125, hose con. 2½-in. various; valves, 130 l. h. thd. Eddy, Bourbon and Western; meters, 1620 various; av. daily cons. 2,500,000 gal.; serv. con. 2400; ord .pres. 80 to 100 lb., fire pres. 100 to 140 lb.
Rates: flat, $4.50 year, bath $3; meter, min. charge 50c. mo., 20c. 1000 gal. max., 8c. min.

LAWRENCEVILLE, 5,000.
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY. Office, Mattoon. For officers, see Mattoon.
Loc. Supt., Fred L. Shimer...Lawrenceville
Embarrass River; chemical, sulphate of alumina & hypochlorite of lime.
Boilers, 2 hor. return tubular; hand stoking; pumps, 4; pumping direct.
Hyd. 93; av. daily cons. 400,000 gal.; ord. pres. 50 to 75 lb., fire pres. 100 to 140 lb.

LEMONT, 2,284.
MUNICIPAL.
Mayor, Mr. Keough.....Lemont
Comr., Mr. Krueger..... "
Wells, two 224 & 1260 ft. deep.

LENA, 1,168.
MUNICIPAL.
Supt., G. W. Benfer.....Lena
Well, 10-in. 600 ft. deep; reservoir, 150,000 gal.
Pump, one centrifugal 432,000 gal. Morris, one deep-well Deming; elec. motors, 2-25 & 100 kw. 220 v. 3 ph. 60 cys. Westg.; pumping to elevated tank, 50,000 gal. wood.
Hyd. 25, hose con. 2½-in.; valves, 12 l. h. thd.; av. daily cons. 75,000 gal.; serv. con. 289; ord. pres. 55 lb., fire pres. same.
Rates: flat, $5 year; meter, 25c. 1000 gal.

LE ROY, 1,702.
MUNICIPAL.
Comr., E. F. Hall.....Le Roy
" E. M. Wirt..... " "
" W. F. Crumbaugh..... " "
Supt., R. Anderson..... " "
Mech. Engr., C. D. Jones..... " "
Wells, three 2 to 12-in. 85 ft. deep; near center distribution; no purification.
Pumps, 3 double act. Goulds & Deming d. con. to elec. motor, 2200 v. 3 ph. 60 cys. Westg.; pumping to standpipe, 85,000 gal.
Pipe, 6 mi.; hyd. 50, hose con. 2½-in. Eddy; valves, 15 l. h. thd. Eddy; av. daily cons. 20,000 gal.; serv. con. 162; ord. pres. 25 to 45 lb., fire pres. 60 lb.
Rates; meter, $1 quarter, 30c. 1000 gal. max., 15c. min.

LEWISTOWN, 2,312.
MUNICIPAL.
Mayor, R. E. Giffith..... Lewistown
Town Clerk, Nathan Painter.... "
Well, 12-in. 29½ ft. deep.
Boilers, 2 fire-tube 50-hp. 110 lb. Frost 1907; pumps, 1-500,000 gal. comp. duplex Epping-Carpenter 1911, one simple duplex Knowles 1888; pumping to elev. tank, 35,000 gal. steel.
Pipe, 5.23 mi. 3 to 8-in.; hyd. 33; valves 15; meters, 220; av. daily cons. 100,000 gal.; serv. con. 280; ord. pres. 45 lb., fire pres. 106 lb.
Rates; meter, $5 year, 35c. 1000 gal. max., 12c. min.

LEXINGTON, 1,400.
MUNICIPAL.
Supt., B. F. Wheeler.....Lexington
Engr. P'g. Sta., G. M. Brown.... "
Wells, two 8 & 10-in. 115 ft. deep; near center business section; no purification.
Pumps, 2-200,000 gal. vert. simple Cook 1902 & Goulds 1907; pumping to standpipe (1894) 40,000 gal.
Pipe, 4 to 8-in. c. i.; hyd. 45, hose con. 2½-in. Ludlow; valves, 8 l. h. opening; meters, 192 National; av. daily cons. 80,000 gal. 80%; serv. con. 198; ord. pres. 43 to 50 lb., fire pres. same.
Rates; meter, $1 mo., 40c. 1000 gal. max., 30c. min.

LIBERTYVILLE, 1,724.
MUNICIPAL.
Mayor, R. P. Schnaebele.....Libertyville
Wells, three 4 to 8-in. 170 to 180 ft. deep & impounding reservoir, 70,000 gal.
Pumps, 1-300,000 gal. triplex Goulds; air compress., Chapman, driven by gasoline engine, 40-hp. Columbus; pumping to elev. tank, 65,000 gal. steel.
Pipe, 11 mi.; hyd. 72; valves, 43; meters, 362; av. daily cons. 36,000 gal.; serv. con. 364; ord. pres. 43 to 65 lb.
Rates; meter, $4 year, 25c. 1000 gal. max., 10c. min.

LINCOLN, 10,892.
LINCOLN WATER & LIGHT CO. (Controlled by New Jersey General Security Co., 158 Ellison St., Paterson, N. J.)
Pres., E. Le B. Gardner....Paterson, N. J.
Sec. & Treas.,
Whitney Conant..... " "
Pur. Agt.,
S. A. Cunningham..... " "
Des. Engr.,
A. W. Cuddeback..... " "
Supt., E. MacDonald.....Lincoln
Ch. Engr. P'g. Sta.,
B. P. Hallock..... "
Wells and infiltration galleries along river bed; 2 mi. from center distribution; chemical, lime.
Boilers, 3 hor. return tubular 125-hp. ea. Phoenix, one water-tube 250-hp. Erie; hand stoking; pumps, 2 comp. duplex 1,250,000 gal. ea. Snow, and 1-1,250,000 gal. Hamilton

driven by telec. motor, 75 kw. 2300 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1886), steel and direct for fires.

Pipe, 24 mi. 4 to 12-in. c. i.; hyd. 236; hose con. 2½-in. various; valves, 132 l. h. thd. various; meters, 550 various; av. daily cons. 730,000 gal.; serv. con. 1500; ord. pres. 30 to 51 lb., fire pres. 80 to 115 lb.

Rates: flat, $5 year, bath $4, closet $3; meter, min. charge 75. mo., 40 c. 1000 gal. max., 8c. min.

LITCHFIELD, 7,000.

MUNICIPAL.

Supt., Wm. Wilton.....Litchfield

Impounding reservoir, 40,000 gal. & creek; boilers, 4 tubular 80 & 100-hp. 75 lb. Galesburg 1911; pumps, 1-1,750,000 gal. comp. duplex Platt.

Pipe, 7 mi. 4 to 10-in.; hyd. 98; valves, 38; meters, 40; av. daily cons. 1,250,000 gal.; serv. con. 350; ord. pres. 40 lb., fire pres. 80 lb.

Rates; flat, $1 mo.; meter, 30c. 1000 gal. max., 5c. min.

LOCKPORT, 2,555.

MUNICIPAL.

Chm. Comrs., Chas. E. Enz.....Lockport
Engr. P'g. Sta., Henry Bailey.... "

Artesian well, 1750 ft. deep; ¼ mi. from center distribution.

Boilers, 2 hor. 40-hp. Erie; hand stoking; pumps, 2-40,000 gal. ea. Worth., 1-80,000 gal., 2-25,000 gal. American d. con. to elec. motors, 140 kw. 220 v. 3 ph. 60 cys. Westg.; elec. energy from Public Service Co. of Nor. Ill.; air compressors, 2 Ingersoll-Rand; pumping to reservoir, 150,000 gal. and elevated tank, 100,000 gal., steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 40,. hose con. 2½-in. Eddy; valves, 22 l. h. thd Worth.; meters, 152 Hersey and Worth.; av. daily cons. 80,000 gal.; serv. con. 152; ord. pres 35 to 43 lb., fire pres. 80 to 100 lb.

Rates: meter, 35c. 1000 gal.

LOSTANT, 458.

MUNICIPAL.

Vil. Pres., C. A. Whitney.....Lostant

Well, 5 ft. in diam. 70 ft. deep; pumps, one simple s. act. Meyer belted to gasoline engine, 10-hp. I. H. C.; pumping to elev. tank, 50,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 1.5 mi. 4 to 8-in.; hyd. 18 Iowa.

Rates; meter, 5 year.

LOUISVILLE, 670.

MUNICIPAL.

Village Pres., A. N. Tollires.....Louisville
" Clerk, Jas. W. Cogswell.. "
Supt., H. S. Stamford..... "

River; ¼ mi. from center distribution; no purification.

Pump, one Deane; pumping to standpipe (1900), iron.

Pipe, ½ mi. 4 to 12-in. c. i.; hyd. 6, hose con. 2½-in.; valves, 4 r. h. thd.; meters, 2 Buffalo; av. daily cons. 12,000 gal.; serv. con. 10; ord. pres. 30 to 40 lb., fire pres. same.

Rates: flat, $1.00 mo.; meter, 30c. 1000 gal.

LOVINGTON, 1,011.

MUNICIPAL.

Comr., W. E. Dawson.....Lovington
" J. W. Mitchell..... "
" Chas. Taylor..... "
Supt., L. O. Patrick..... "
Engr. P'g. Sta., O. C. Davis..... "

Wells, 2, 6-in. 147 ft. deep; reservoir, 15,000 gal.

Boilers, 2 fire-tube 125-hp. ea. Erie; hand stoking; pumps, 1-288,000 gal. deep well ea. Cook, 1-288,000 gal. steam Cameron, 1-288,000 gal. deep well Haberly driven by elec. motor, 12-hp. 110 v. d. c.; pumping to elevated tank, 10,000 gal., steel.

Hyd. 19, hose con. 3-in. various; meters, 60 mostly Buffalo; av. daily cons. 30,000 gal ; serv. con. 105; ord. serv. 48 lb., fire pres. same.

Rates: flat, $5 year; meter, 25c. 1000 gal.

McHENRY, 1,031.

MUNICIPAL.

Artesian well, 6-in. 70 ft. deep.

Pumps, 1-500,000 gal. triplex Platt driven by gasoline engine; pumping to standpipe, 160,000 gal.

McLEANSBORO, 1,796.

MUNICIPAL.

Supt., S. G. Yoder.....McLeansboro

Impounding reservoir; one mi. from center distribution; mechanical filters, 240,000 gal.; chemical, sulphate of alumina.

Pumps, 1-240,000 gal. Worth. driven by elec. motor, 30-hp. 1100 v. 3 ph. 60 cys. Westg.; pumping to elevated tank, 60,000 gal. steel.

Pipe, 8 mi. 4 to 8-in. c. i.; byd. 75, hose con. 3-in. Rensselaer; valves, r. h. thd.; meters, none; av. daily cons. 50,000 gal.; serv. con. 200; ord. pres. 40 to 60 lb., fire pres .40 to 130 lb.

MACKINAW, 725.

MACKINAW ELECTRIC LIGHT & POWER CO.

Pres., Walter Porter.....Mackinaw
Sec., J. J. Tillan..... "
Treas., Lyman Porter..... "
Supt., F. E. Hart..... "

Wells, 2, 6-in. 175 ft. deep; 1000 ft. from center distribution.

Pump, belted to elec. motor, 15 kw. 110 v. 3 ph. 25 cys. F. M.; pumping to reservoir.

Hyd. 20, hose con. 3-in. Rensselaer; valves, 4; av. daily cons. 15,000 gal.; serv. con. 200; ord. pres. 35 lb., fire pres. 75 lb.

MACOMB, 5,774.

MUNICIPAL.

Supt., George Doke.....Macomb
Engr. P'g. Sta., Butler Newell.... "

Crooked Creek; one mi. from center business section; impounding reservoir,

150,000 gal.; mech. filter, 1,000,000 gal.; chemical, sulphate of alumina & hypochlorite of lime.

Boilers, 2 tubular 100-hp. Frost; pumps, 2-1,000,000 gal. comp. duplex Platt, 2-1,500,000 gal., driven by steam engine, 10-hp.; pumping to elev. tank, 100,000 gal. steel.

Pipe, 12 mi. 4 to 12-in.; hyd. 130; meters, 653 National; av. daily cons. 500,000 gal.; serv. con. 666; ord. pres. 65 to 75 lb.

Rates; meter, 25c. 1000 gal. max., 12.5c. min.

MANHATTAN, 443.

MUNICIPAL.

Supt., Joseph Kree.....Manhattan

Well; ¼ mi. from center distribution.

Pump, triplex Goulds belted to elec. motor, 110 v. 3 ph. 60 cys. Westg.; pumping to reservoir, 2-8x40 ft.

Pipe, 2 mi. 4 to 12-in.; hyd. 15, hose con. 2-in.; meters, 300 Buffalo; av. daily cons. 15,000 gal.; serv. con. 300; ord. pres. 40 to 60 lb.

Rates: meter, 20c. 1000 gal.

MAPLE PARK, 389.

MUNICIPAL.

Town Clerk, A. T. Ahlin.....Maple Park

Engr. P'g. Sta., H. J. Butler... " "

Well, 6-in. 260 ft. deep.

Pump, driven by gasoline engine, 8-hp. Charter; pumping to elevated tank, 8000 gal., wood.

Pipe, 1½-mi. 4 to 12 in. steel; hyd. 20, hose con. 2-in.; meters, 95 Pittsburgh; av. daily cons.3500 gal.; serv.con. 95; ord. pres. 90 lb., fire pres. same.

Rates: flat, $5 year; meter, 40c. 1000 gal.

MARENGO, 1,936.

MUNICIPAL. Operated under contract by FRY ELECTRIC COMPANY.

Supt., B. E. Simpleins.....Marengo

Well, 20 ft. in. diam. 14 ft. deep; pumps, 1-300,000 gal. triplex Platt driven by elec. notor, 20-hp. 220 v. 3 ph. 60 cys.; pumping to standpipe, 63,500 gal.

Pipe, 5.75 mi. 4 to 8-in. c. i.; hyd. 71, hose con. 2-in. Ludlow; valves, 18; meters 250; av. daily cons. 100,000 gal.; serv. con. 250; ord. pres. 50 to 60 lb., fire pres. same.

Rates; meter, $5 year 20,000 gal., 20c. 1000 gal. max., 9c. min.

MARION, 10,000.

CENTRAL ILLINOIS PUBLIC SERVICE COMPANY. Office, Mattoon. For officers, see Mattoon.

Local Supt., B. G. Eckard.....Marion

Wells, 7; boilers, 2 return tubular 200-hp. Vogt; hand stoking; pumping direct.

Hyd. 94, hose con. 2½-in.; av. daily cons. 70,000 gal.; serv. con. 550; ord. pres. 30 to 50 lb., fire pres. 120 to 130 lb.

Rates; meter, 60c. 1000 gal. max., 30c. min.

MARK, 1,025.

Supply from Granville.

MAROA, 1,250.

MUNICIPAL.

Supt., H. Harpstrite.....Maroa

Wells, three 2 to 8-in. 86 ft. deep; near center business section; settling basin.

Boilers, 2 hor. tubular 40 & 50-hp. Oakes; hand stoking; pumps, 3 Cook; pumping to elev. tank, steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 36, hose con. 2½-in. Eureka; valves, 4 Mueller; meters, Buffalo; serv. con. 178; ord. pres. 25 to 50 lb., fire pres. 50 to 75 lb.

MARSEILLES, 3,291.

CONSUMER'S WATER & LIGHT COMPANY.

Artesian wells, 612 ft. deep; pumps, 2 triplex.

MARSHALL, 2,569.

MUNICIPAL.

Supt. Pub. Utilities,

George Taubeneck.....Marshall

Engr. P'g. Sta., Otto Eggebrecht "

Wells, five 10-in. 40 to 55 ft. deep; 2 mi. from center business secion.

Boiler, 100-hp. 100 lb. Terre Haute; pumps, 1-750,000 gal. McGowan 1906, 1-1,500,000 gal. cross comp. c. & f. wh. Canton 1913; pumping to elev. tank (1900) gal. steel, Chicago Bridge & Iron Works.

Pipe, one to 8-in. c. i., w. i. & galv. i.; meters, 20 Buffalo, Neptune & Worth.; av. daily cons. 600,000 gal.; serv. con. 325; ord. pres. 50 lb.

Rates; flat, $4 year, bath $2; meter, 25c. 1000 gal. max., 4.5c. min.

MASCOUTAH, 2,081.

MUNICIPAL.

Mayor, J. D. Mollinan.....Mascoutah

Supt., Chas. Sparie..... "

Well, 45 ft. deep; ¼ mi. from center distribution.

Boiler, tubular 100-hp. Erie; hand stoking; pump, F. M.

Av. daily cons. 10,000 gal.; serv. con. 22; ord. pres. 56 lb., fire pres. 125 lb.

Rates: meter, 20c. 1000 gal.

MASON CITY, 1,842.

MUNICIPAL.

Supt. & Ch. Engr. P'g. Sta.,

N. E. Taylor.....Mason City

Wells, 2, 10-in. 250 ft. deep.

Boilers, 2 tubular 100-hp. ea. Erie & Frost; hand stoking; pumps, 2-360,000 gal. Cook; pumping to standpipe (1898), steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 37, hose con. 2½-in.; valves, 12 r. h. thd.; meters, 203 various; av. daily cons. 160,000 gal.; serv. con. 538; ord. pres. 47 lb., fire pres. 100 to 140 lb.

MATTOON, 11,456.

CENTRAL ILLINOIS PUBLIC SERVICE COMPANY. Office, Mattoon. (Controlled

by Middle West Utilities Company, 112 W. Adams St., Chicago, Ill.)
Pres., Marshall E. Sampsell.....Chicago
V. Pres., F. S. Peabody..... "
Sec. & Treas., R. B. Donnelly....Mattoon
Supt., J. A. Rhue..... "

Wells, 158 & 10-in. 60 ft. deep; one mi. from center distribution; seetling basin, 1000,000 gal.

Boilers, 2 hor. return tubular 125-hp. ea. Atlas; hand stoking; pumps, 3-2,000,000 gal. Deane, Holyoke & L-D-G.; elec. motors, 2200 v. 3 ph. 60 cys.

MAYWOOD, 10,000.
MUNICIPAL.
Supt., Harry Barker.....Maywood

Wells, three 1600 to 2200 ft. deep; near center business section; impounding reservoir, 22,000 gal.

Pumps, 2-850,000 gal. comp. duplex Worth., air compressor, two 350 & 750 cu. ft. Ingersoll-Rand; pumping to standpipe, 150,000 gal.

Pipe, 36.5 mi. 4 to 12-in.; hyd. 447; valves, 130; meters, 2000; serv. con. 2000; ord. pres. 30 lb., fire pres. 60 to 80 lb.

Rates; meter, $2 quarter 7000 gal., 20c. 1000 gal. max., 15c. min.

MELROSE PARK, 4,806.
MUNICIPAL.
Supt., Alex. Fleming.....Melrose Park

Wells, 2 tubular 1620 ft. deep; near center business section; impounding reservoir, 175,000 gal.

Pumps, 1-750,000 gal. comp. duplex Worth., 1-1,500,000 gal. duplex Platt; air compressor, Platt; pumping to standpipe, 150,000 gal.

Pipe, 15 mi. 4 to 12-in.; meters, 721; av. daily cons. 178,000 gal.; serv. con. 721; ord. pres. 40 lb.

Rates; meter, 20c. 1000 gal. max., 7c. min.

MELVIN, 509.
MUNICIPAL.
Comr., John Uhl.....Melvin
" Wm. Wheeler..... "
" George G. Arends..... "
Supt., Marshall J. H. Ren..... "

Wells, 4 & 8-in. 230 ft. deep; near center business section.

Pumps, 2 hor. simple c. & f. wh. H. & H. 1902 & 1912; oil & gasoline engines, 20 & 6-hp. 1912 & 1902; pumping to elev. tank (1912) 59,400 gal. steel, Chicago Bridge & Iron Works.

Pipe, 2 mi. 4 to 8-in. c. i., hyd. 23, hose con. 2½-in. N. Y. Belting Co. & Manhattan; valves, 25 l. h. opening; meters, 62 Neptune; serv. con. 62; ord. pres. 40 to 50 lb., fire pres. 50 lb.

Rates; meter, $4 year 12,000 gal., 25c. 1000 gal.

MENDOTA, 3,806.
MUNICIPAL.
Supt., G. T. Price.....Mendota

Wells, two 8 to 12-in. 500 ft. deep; near center distribution.

Boilers, 2 tubular 150-hp. 125 lb. Kewanee 1902; hand stoking; pumps, 2-800,000 gal. hor. comp. d. act. 1888; air lift pumps, one 740-hp. Ingersoll-Rand 1913, one 500-hp. American 1902; pumping to reservoir, 136,000 gal. & standpipe (1888) 35,000 gal.

Pipe, 23 mi. 4 to 8-in. c. i.; hyd. 110, hose con. 2½-in. Holly & Rensselaer; valves, 23 l. h. opening Clow; meters, 1100 Neptune; av. daily cons. 630,000 gal. 55%; serv. con. 1100; ord. pres. 45 to 90 lb., fire pres. 90 lb.

Rates; meter, 50c. mo., 20c. 100 cu. ft.

METROPOLIS, 4,655.
MUNICIPAL.
Supt., P. M. Richards.....Metropolis

Well, 6-in. 125 ft. deep; ½ mi. from center distribution; reservoir, 60,000 gal.

Boilers, 3 hor. return tubular 450-hp., one Atlas & 2 Springfield; hand stoking; pumps, 2-1,500,000 gal. McGowan and Deane; air compressors, 2 Ingersoll-Rand; pumping direct.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 83, hose con. 2½-in. Crane; valves, 20 r. h. thd. various; meters, none; av. daily cons. 250,000 gal.; serv. con. 400; ord. pres. 40 to 50 lb., fire pres. 60 to 100 lb.

MILFORD, 1,500.
MUNICIPAL.
Supt., Samuel Williamson.....Milford

Wells, two 8-in. 65 ft. deep; near center business section; pumps, 1-324,000 gal. vert. triplex Goulds 1893 driven by gasoline engine, 16-hp. F. M. 1901; pumping to elev. tank, 63,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 40, hose con. 2½-in. Rensselaer; valves, 20 r. h. opening Crane; meters, 270 Pittsburg; av. daily cons. 25,000 gal.; serv. con. 270; ord. pres. 36 to 40 lb., fire pres. same.

Rates; meter, 25c. 1000 gal.

MINONK, 2,070.
PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS. For executive officers, see Chicago.
Supt., C. R. Laub.....Streator
Des. Engr., Ross Carey.....Joliet
Engr. P'g. Sta., Joseph Cominski..Minonk
Chemist, L. H. Lehmphuel.....Chicago

Artesian well, 5 to 18-in. 1800 ft. deep; near center business section; reservoirs, 2000 gal.; no purification.

Pumps, 1-135,000 gal. American 1911 belted to elec. motors, two 20-hp. 2200 v. 3 ph. 60 cys. Ft. Wayne 1911; pumping to elev. tank (1898) 8000 gal. steel.

Pipe, 15 mi. ¾ to 8-in. c. & w. i.; hyd. 50, hose con. 3-in. Rensselaer; valves, one l. h. opening Jenkins; meters, one Pittsburgh av. daily cons. 52,500 gal. 95%; serv. con. 400; ord. pres. 45 to 50 lb., fire pres. same.

Rates; flat, 1.25 quarter, bath $1.25, closet $1.25; meter, ¾c. cu. ft.

MINOOKA, 540.
MUNICIPAL.
Engr. P'g. Sta., M. Kavanaugh...Minooka
Wells; pumps; gravity distribution.
Pipe, 1.5 mi. 4 to 8-in. c. i.; hyd. 16, hose con. 2½-in.; valves, 6; av. daily cons. 5000 gal.; serv. con. 40; ord. pres. 40 lb.

MOKENA, 500.
MUNICIPAL.
Engr. P'g. Sta., Conrad Schenjel...Mokena
Wells; pumps; pumping to elev. tank (1897) 65,000 gal. iron.
Pipe, one mi. 6-in.; hyd. 20, hose con. 2½-in. Rensselaer; valves, 5 r. & l. h. opening; meters, 210 National; av. daily cons. 17,000 gal.; serv. con. 30; ord. pres. 75 lb.
Rates; flat, $5 year.

MOLINE, 24,199.
MUNICIPAL.
Comr., L. O. Jahns.....Moline
Ch. Engr. P'g. Sta., Otto Hintz.... "
Mississippi River; near center distribution; coagulating basin, 750,000 gal.; mechanical filters, 5,000,000 gal.; chemicals, hypochlorite of lime and sulphate of alumina.
Boilers, 2 water-tube 150-hp ea. Aultman and Tyler, 2 water-tube 200-hp. ea. Keeler; hand and mechanical stoking, chain grate; pumps, 1-5,000,000 gal. Dane, 1-6,000,000 gal. Holly, 1-10,000,000 gal. Epping-Carpenter; pumping to elevated tank, 500,000 gal., steel.
Pipe, 45 mi. 4 to 12-in. c. i.; hyd. 500, hose con. 2½-in. Ludlow and Iowa; valves, 300 r. & l. h. thd. various; meters, 1000 Pittsburgh, Hersey, Thomson and Union; av. daily cons. 4,000,000 gal.; serv. con. 5000; ord. pres. 90 to 110 lb., fire pres. 110 to 130 lb.
Rates: flat, min. $6 year; meter, 12c. 1000 gal., 10c. min.

MONTICELLO, 1,981.
MUNICIPAL.
Chmn. Comrs.,
Dr. W. G. McDeed.....Monticello
Wells, three 6 to 10-in. 212 to 309 ft. deep & impounding reservoir, 56,000 gal.
Boilers, 2 tubular 80-hp. 100 lb. Gem; pumps, 1-600,000 gal. duplex Deane, 1-240,000 gal. American, 1-320,000 gal. American, 1-346,000 gal. American; pumping to elev. tank, 136,000 gal. steel.
Pipe, 5 mi. 2 to 8-in.; hyd. 34; meters 150; av. daily cons. 150,000 gal.; serv. con. 500; ord. pres. 45 lb., fire pres. 100 to 120 lb.
Rates; flat, $5 year, bath $1.50, closet $3; meter, $1.25 quarter, 20c. 1000 gal. max., 10c. min.

MORGAN PARK, 3,694.
Supply from Chicago.

MORRISON, 2,410.
MUNICIPAL.
Mayor, F. O. Barnum.....Morrison
Supt., C. P. Hiddleton.....Morrison
Wells, six 6 & 8-in. 55 to 2048 ft. deep.
Boilers, two 100-hp. 90 lb. Cullen 1894; pumps, 1-1,180,000 gal. comp. duplex L-D-G, 1-1,160,000 gal. comp. duplex Smedley; pumping to elev. tank, 342,000 gal. steel.
Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 108 Ludlow; meters, 327 National; av. daily cons. 278,000; serv. con. 700; ord. pres. 50 to 60 lb., fire pres. 150 lb.
Rates; flat, 50c. mo.; meter, 75c. mo., 25c. 1000 gal. max., 10c. min.

MORRISVILLE, 1,126.
MUNICIPAL.
Mayor, J. F. Clickener.....Morrisville
Wells, two 16 ft. in diam. 35 ft. deep; near center business section.
Pumps, 2-60,000 gal. vert. single act. Myers driven by elec. motor, 3-hp. Century; purchase energy from Central Illinois Public Service Co.; pumping to elev. tank, 40,000 gal. wood.
Pipe, 1½ mi. 6-in. c. i.; hyd. 12; meters, 45; av. daily cons. 25,000 gal.; serv. con. 45; ord. pres. 40 lb.
Rates; meter, 25c. 1000 gal.

MORTON, 1,004.
MUNICIPAL.
Mayor, Wm. Lackland.....Morton
Chmn. Comrs., Michael Beyer..... "
Town Clerk, Jacob Greider..... "
Mgr., Levi Moziman..... "
Engr. P'g. Sta., Wm. Bartelmay... "
Wells, 2, 8-in. 220 ft. deep; near center distribution; no purification.
Pumps, 2 Downey d. con. and belted to elec. motors, 2, 20-hp. ea. 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1914), steel.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 30, hoe con. 2-in. Eddy; meters, 120 Neptune and Buffalo; av. daily cons. 6000 gal.; serv. con. 130; ord. pres. 40 lb., fire pres.
Rates; meter, min. charge 75. mo., 75. 1000 gal.

MOUND CITY, 2,837.
MOUND CITY WATER, LIGHT, POWER & HEAT MFG. COMPANY.
Gen. Supt., W. F. Crowley....Mound City
Wells, 10-in. 200 to 635 ft. deep; reservoir, 15,000 gal.; pumping to standpipe, 75,000 gal.
Pipe, 6 mi.; hyd. 35; valves 20; meters 4; av. daily cons. 300,000 gal.; serv. con. 300.

MOUNDS, 3,000.
CENTRAL ILLINOIS PUBLIC SERVICE COMPANY. Office, Mattoon. For executive officers, see Mattoon.
Local Supt., B. King.....Mounds
Wells, two 10-in. 300 ft. deep; ½-mi. from center distribution; no purification.
Boilers, 3 water-tube 300-hp. B. & W.; hand stoking; pumps, 3-2,160,000 gal. Burnham & Worth.
Pipe, 3.5 mi. c. i.; hyd. 33, hose con.

2½-in.; valves, 12 r. h. thd. Crane; meters, 275 Hersey & Worth. ; av. daily cons. 500,000 gal.; ord. pres. 25 to 40 lb., fire pres. 80 to 100 lb.

Rates; meter, 50c. 1000 gal. max., 40c. min.

MT. CARMEL, 6,934.

MOUNT CARMEL PUBLIC UTILITY & SERVICE CO.

Pres., J. M. Mitchell.....Mt. Carmel
V. Pres., F. Herbenstein.. Cincinnati, Ohio
Mgr., P. Barnhard.....Mt. Carmel
Ch. Engr. P'g. Sta.,
Oscar Knight..... " "

Wabash River; one mi. from center distribution; coagulating basin, 50x75 ft.; mechanical filter, 1,500,000 gal.; chemicals, hypochlorite of lime and sulphate and alumina.

Boilers, 2 125-hp. ea. Atlas; hand stoking; pumps, 3-2,000,000 gal. Deane, Worth. and McGowan, 1-1,250.000 gal. De Laval driven by elec. motor, 25-hp.; other elec. motors, 300 kw. 2300 v. 3 ph. 60 cys. Allis C.; pumping to standpipe (1897), steel.

Pipe, 40 mi. 4 to 12-in. c. i.; hyd. 155 Clow and Roe Stephens; valves, Crane; meters, 25 Hersey, Worth. and National; av. daily cons. 1,250,000 gal.; serv. con. 1400; ord. pres. 25 to 50 lb., fire pres. 40 to 65 lb.

Rates: flat, $6 year, bath $3, closet $3; meter, 30c. 1000 gal. max., 10c. min.

MT. CARROLL, 2,000.

MUNICIPAL.

Engrs. P'g. Sta.,
John & Ben Warfield.....Mt. Carroll

Wells, two 20 ft. in diam., 20 & 2500 ft. deep; impounding reservoir, 30,000 gal.

Boilers, two 60 & 80-hp. Armstrong 1888 & Star 1901; pumps, 1-1,500,000 gal. comp. duplex Worth., 1-1,000,000 gal. duplex Gordon; air compressor, Bacon; pumping to elev. tank, 106,000 gal. wood.

Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 43, hose con. 4-in. R. D. W.; valves, 10; meters, 125; av. daily cons. 325,000 gal.; serv. con. 300; ord. pres. 40 to 70 lb., fire pres. 125 lb.

Rates; flat, $6 year, bath $2, closet $3.

MT. MORRIS, 1,132.

MUNICIPAL.

Chmn. Bd., Mr. Alson.....Mt. Morris
Engr. P'g. Sta., F. Tice..... " "

Well, 6 to 10-in. 500 ft. deep & impounding reservoir, 7000 gal.

Pumps, 1-95,000 gal. triplex Goulds; air compressor, Ingersoll-Rand; gasoline engine, 30-hp. Field; pumping to elev. tank, 56,500 gal. wood.

Pipe, 4 mi. 4 to 10-in.; hyd. 44 R. D. W.; meters, 86 mostly Buffalo; av. daily cons. 35,000 gal.; serv. con. 220; ord. pres. 40 to 50 lb.

Rates; flat, $5 year, closet $2; meter, $2, 40c. 1000 gal. max., 20c. min.

MT. OLIVE, 3,500.

MUNICIPAL.

Engr. P'g. Sta., Henry Schroeder, Mt. Olive

Boilers, 2 return tubular 80-hp. 110 lb. O'Brien 1905; hand stoking; pipe, 9 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Rensselaer; meters, 7; serv. con. 460; ord. pres. 60 to 70 lb., fire pres. 100 to 120 lb.

Rates; meter, 50c. gal. max., 15c. min.

MT. PULASKI, 1,511.

MUNICIPAL.

Mayor, John W. Mayer.....Mt. Pulaski
City Clerk, John Y. Downing. " "
Supt., W. H. Stafford..... " "

Wells, 3, 8-in., 8 & 9 ft.

Pumps, one deep-well Cook, 1-500,000 gal. comp. duplex Deane, 1-600,000 gal. Canton; pumping to elevated tank, 60,000 gal.

Pipe, 5 mi. 4 to 8-in.; hyd. 37; meters, 200 mostly Buffalo; serv. con. 200; ord. pres. 40 to 75 lb.

Rates: meter, min. charge $4 year, 4c. 100 gal. max., 2c. min.

MT. STERLING, 3,200.

MUNICIPAL.

Supt., F. A. Williams.....Mt. Sterling

Boilers, 2 tubular 45 & 60-hp. Kewanee & Michelmann; hand stoking; pumps, 2-432,000 gal. Gardner; pumping to standpipe (1902) 34,000 gal steel.

Pipe, 2.5 mi. 4 to 8-in. c. i.; hyd. 37, hose con. 2½-in.; valves, 12 l. h. thd.; meters, 115 Pittsburgh; av. daily cons. 12,000 gal.; serv. con. 150; ord. pres. 45 to 100 lb., fire pres. same.

Rates; meter, 30c. 1000 gal.

MT. VERNON, 8,007.

CITIZENS GAS, ELECTRIC, & HEATING CO.

Gen. Mgr. & Treas.,
H. E. Brandli.....Mt. Vernon
Sec., H. O. Louwien..... " "
Supt., Sherman Allen..... " "

Impounding reservoirs, 2-435,000,000 gal.; one & 4 mi. from center distribution; coagulating basins 1,150,000; lows sand filter 1,500,000 gal.; chemical, sulphate of alumin.

Pumps, 3 direct connected to elec. motors 60, 60 & 125-hp. 2300 v. 3 ph. 60 cys. West.; elec. energy from local light plant, pumping to standpipe (1913), steel and elevated tank, 150,000 gal.

Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 83, hose con. 2½-in. Nelson; meters, 700 mostly Hersey and Platt; av. daily cons. 1,300,000 gal.; serv. con. 1,060; ord. pres. 35 to 50 lb., fire pres. 125 lb.

Rates: meter, 30c. 1000 gal. max., 7c. min.

MURPHYSBORO, 7,485.

MURPHYSBORO WATERWORKS, ELECTRIC & GAS LIGHT CO.

Pres., M. M. Mass.....Murphysboro
V. Pres., J. Van Closeter..... "
Sec. & Treas.,
P. H. Eisenmeyer..... "
Supt., W. M. Settle..... "

Muddy River; about one mi. from center distribution.

Boilers, 3 tubular 150-hp. ea. O'Brien; pumps, 1-1,500,000 gal. Deane, 2-3,000,000 gal. ea. L.-D.-G.; pumping to standpipe (1900), steel.

Pipe, 12 mi. 4 to 12-in.; hyd. 100, hose con. 2½-in., valves, 90 r. h. thd. Crane; av. daily cons. 2,000,000 gal.; serv. con. 1000; ord. pres. 40 to 75 lb., fire pres. 85 to 100 lb.

NAPERVILLE, 3,449.

MUNICIPAL.

Mayor, F. H. Kendall.....Naperville
Comr., W. N. Gioler..... "
" W. T. Hiltenbrand..... "
" C. H. Bowman..... "
Supt., C. L. Schwartz..... "
Asst. Supt. & Engr. P'g. Sta., W. E. Rickert..... "

Wells, 2, 8-in. 1400 ft. deep; reservoir, 110,000 gal.

Boilers, 3 hor. return tubular 450-hp. Erie, Kewanee and Freeman; hand stoking; pump, 1-1,500,000 gal.; air compressors, 2 Platt and Ingersoll-Rand; elec. motors, 1-20 kw. 2200 v. 3 ph. 60 cys. Wagner; pumping to elevated tank, 100,000 gal. steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 150, hose con. 2½-in. Rensselaer; valves, 70; meters, 700 National; serv. con. 700; ord. pres. 50 to 63 lb., fire pres. 63 to 120 lb.

Rates: meter, min. charge $5 year, 1250 cu. ft., 10c. 100 cu. ft.

NAUVOO, 1,020.

MUNICIPAL.

Supt., Chas. H. Hudson.....Nauvoo

Well, 19 ft. in diam. 14 ft. deep; one mi. from center business section; no purification.

Pumps, 1-600,000 gal. hor. triplex Platt 1915 d. con. to elec. motor, 50-hp. 2200 v. 25 cys. G. E. 1915; pumping to standpipe (1914) 60,000 gal.

Pipe, 4 mi. 6 to 10-in. c. i.; hyd. 30, hose con. 3-in. Chapman; valves, 19 r. h. opening; meters, 35 King; av. daily cons. 30,000 gal.; serv. con. 36; ord. pres. 90 lb., fire pres. 190 lb.

Rates; meter, 50c. mo., 20c. 1000 gal. 1000 max., 10c. min.

NEW ATHENS, 1,600.

MUNICIPAL.

Supt., H. Kaiser.....New Athens

Kaskaskia River; no purification.

Pumps, one hor. American 1912 d. con. to elec. motor, 50-hp. 2200 v. 3 ph. 60 cys. Westg. 1912; pumping to elev. tank (1912) 70,000 gal. steel.

Pipe, 5.5 mi. 4 to 8-in. c. mi.; hyd. 28, hose con. 2½-in. Ludlow; valves, 8 Rensselaer; meters, 4 Hersey; av. daily cons. 45,000 gal.; serv. con. 250; ord. pres. 45 to 55 lb., fire pres. 45 to 120 lb.

Rates; flat, $4 6 mo., bath $1.50, closet $2.50; meter, 10c. 1000 gal. max., 5c. min.

NEWTON, 2,108.

MUNICIPAL.

Town Clerk, John W. Matheny....Newton

Embarrass River; no purification.

Pumps, 1-700,000 gal. duplex Platt, 1-1,500,000 gal. comp. duplex F. M.; pumping to elev. tank, 80,000 gal.

NOKOMIS, 1,872.

MUNICIPAL.

Mayor, J. H. Weinstein.....Nokomis

Wells, six 6-in. 41 ft. deep; boiler, 125-hp. Erie; pumps, 1-800,000 gal. steam duplex Gardner, 1-400,,000 gal. triplex single act. Deming d. con. to elec. motor, 20-hp. Wagner; pumping to elev. tank, 42,000 gal. steel.

Pipe, 5.5 mi. 4 to 8-in. c. i.; hyd. 26 R. D. W.; av. daily cons. 75,000 gal.; serv. con. 200; ord. pres. 30 to 43 lb., fire pres. 100 lb.

Rates; flat, $7 year; meter, 50c. 1000 gal. max., 15c. min.

NORMAL, 4,024.

MUNICIPAL.

Supt., Harry Vencill.....Normal
Des. Engrs., Mellerish & Broyhill.. "

Impounding reservoirs, 2-190,000 gal. & wells, three 8 & 12-in. 180 to 204 ft. deep; ¼ mi. from center business section.

Pumps, one vert. single G. E. 1909, 2-720,000 gal. hor. American 1913, 1-720,000 gal. vert. American 1913, d. con. to elec. motors, three 35 & 40-hp. 2200 v. 2 ph. 60 cys, G. E. 1913; pumping direct & to standpipe (1898) 50,000 gal.

Pipe, 14.5 mi. 4 to 12-in. c. i.; hyd. 107, hose con. 2½-in. Rensselaer; valves, 75 l. h. opening Rensselaer; meters, 850 Jenkins, Henry & National; av. daily cons. 380,000 gal. 66%; serv. con. 850; ord. pres. 60 lb. fire pres. 120 lb.

Rates: meter, $1.25 quarter 5000 gal., 25c. 1000 gal.

NORTH CHICAGO, 4,000.

MUNICIPAL.

Lake Michigan; settling basin, 64,000 gal.; chemical, hypochlorite of lime.

Boilers, 2 water-tube 80-hp. 95 lb. Freeman; pumps, 1-600,000 gal. comp. duplex Worth., 1-1,000,000 gal. comp. duplex Worth.; pumping to elev. tank, 40,000 gal. steel.

Av. daily cons. 350,000 gal.; ord. pres. 50 lb.

Rates; flat, min. $5 year; meter, 30c. 1000 gal. max., 15c. min.

NORTH CRYSTAL LAKE, 689.

MUNICIPAL.

Vil. Pres., Dr. Hull....North Crystal Lake

Well, 8-in. 285 ft. deep; pump, 1-300,000 gal. Pittsburgh driven by elec. motor, 20-hp. 220 v. 60 cys.; purchase energy from Illinois Northern Utilities Co.; pumping to elev. tank (1910) 56,000 gal. wood.

Pipe, 3 mi.; hyd. 15; meters, 159 Pittsburgh; av. daily cons. 55,000 gal.; serv. con. 159; ord. pres. 35 to 40 lb.

Rates; meter, 35c. 1000 gal. max., 12c. min.

OAK PARK, 26,000.
MUNICIPAL.
Supt., H. G. P. Matte.....Oak Park
Water purchased from City of Chicago.
Pumps, 4-8,640,000 gal. De Laval; elec. motors, 220-hp. 440 v. 3 ph. 60 cys. Westg.; elec. energy from Public Service of Northern Illinois; pumping direct.
Pipe, 78.3 mi. 4 to 12-in. c. i.; hyd. 792; valves, 468 l. h. thd.; meters, 6000; av. daily cons. 1,800,000 gal.; serv. con. 6000 ord. pres. 45 to 50 lb., fire pres. 70 to 75 lb.
Rates: meter, 18c. 1000 gal. max., 15c. min.

OAKLAND, 1,159.
MUNICIPAL. Operated by Central Illinois Public Service Co. For officers of company see Mattoon.
Mayor, John Maddox.....Oakland
Town Clerk, O. B. Widdow..... "
Loc. Mgr., Ernest Small..... "
Wells, two 95 to 110 ft. deep; pumps, 2-90,000 gal. National driven by elec. motor, 10-hp. 220 v. G. E.; gasoline engine, 25-hp. F. M.; purchase energy from Central Illinois Public Service Co.; pumping to elev. tamk, 40,000 gal. steel.
Pipe, 2.5 mi. 4 & 6-in. c. i.; hyd. 35; meters, 116; ord. pres. 50 lb., fire pres. same.
Pipe, 2.5 mi. 4 & 6-in.; hyd. 35; meters, 116; ord. pres. 50 lb., fire pres. same.
Rates; meter, 35c. mo.

ODELL, 1,035.
MUNICIPAL.
Town Clerk, Theodore Trecker.....Odell
Wells, two 1298 & 1360 ft. deep; impounding reservoir, 34,000 gal.
Pumps, 1-196,000 gal. Dowie, 1-432,000 gal. triplex Rumsey; air compressor, Ingersoll-Rand; elec. motors, two 15 & 20-hp. G.E.; steam engine, 25-hp. Frost; purchase energy from Public Service Company of Northern Illinois; pumping to elev. tank, 27,000 gal. wood.
Pipe, 3 mi. 4 to 8-in. c. i.; meters, 235 Empire; av. daily cons. 25,000 gal.; serv. con. 235; ord. pres. 40 lb., fire pres. 80 lb.
Rates; meter, $1.40 quarter 3000 gal., 35c. 1000 gal. max., 15c. min.

O'FALLON, 2,018.
MUNICIPAL.
Wells; boilers, two tubular 80-hp. 70 lb. O'Brien; pumps, 1-1,500,000 gal. duplex Cowille, 1-1,000,000 gal. duplex Snow; purchase energy from local Electric Light Co.
Pipe, 3 mi. 4 to 8-in.; hyd. 28; meters; av. daily cons. 35,000 gal.; serv. son. 90; ord. pres. 40 lb., fire pres. 80 lb.
Rates; meter, 50c. 1000 gal.

OHIO, 527.
MUNICIPAL.
Comr., Henry Kramer.....Ohio
" O. J. Conner..... "
" C. D. Pomeroy..... "
Town Clerk, F. W. Hey.....Ohio
Wells, 2 6-in. 365 ft. deep.
Boilers, 2; hand stoking; pumps, 2 Cook; pumping to elevated tank, 30,000 gal. wood.
Pipe, one mi. 4 to 12-in. c. i.; hyd. 16, hose con. 2½-in. Crane; valves, 5 r. h. thd. Crane; meters, 150 Buffalo and Pittsburgh; av. daily cons. 41,000 gal.; serv. con. 170; ord. pres. 30 to 38 lb., fire pres. 30 to 45 lb.
Rates: flat, $6 year.

OLNEY, 5,801.
MUNICIPAL.
Supt., O. D. Slickenmeyer.....Olney
Impounding reservoir, 100,000,000 gal. on Fox River.
Boilers, two 80-hp. 100 & 125 lb. L-D-G 1892 & Gem; pumps, 1-1,000,000 gal. comp. duplex Worth., 1-500,000 gal. comp. duplex L-D-G; pumping to elev. tank, 48,000 gal. steel.
Pipe, 15.75 mi. 6 to 10-in.; hyd. 152; meters, 372; av. daily cons. 500,000 gal.; serv. con. 372; ord. pres. 50 lb., fire pres. same.
Rates; meter, 25c. 1000 gal. max., 5c. min.

ONARGA, 1,373.
MUNICIPAL.
Mayor, Ira F. Palmer.....Onarga
Supt., Geo. Olson..... "
Artesian wells, 3, 4-in., 100 & 110 ft. deep.
Pumps, one driven by gasoline engine, 18 hp.; pumping to standpipe (1903), brick; elevated tank, 50,000 gal., iron.
Pipe, 3 mi. 4 to 6 in. c. i.; hyd. 40, hose con. 2½-in. to 3 ;meters, 201: av. daily cons. 25,000 gal.; serv. con. 201.

OREGON, 2,180.
MUNICIPAL.
Mayor, H. W. Wade.....Oregon
Well, 1600 ft. deep & impounding reservoir, 1,500,000 gal.
Pumps, 1-700,000 gal. triplex Goulds, 1-430,000 gal. triplex Goulds; elec. motors, 2 25 & 40-hp. 3 ph. 60 cys.; gasoline engine, 30-hp. F. M.
Pipe, 5 mi. 4 to 8-in c. i.; hyd. 60; valves, 13; meters, 450 Badger & Hersey; av. daily cons. 143,000 gal.; serv. con. 450; ord. pres. 80 to 85 lb., fire pres. same.
Rates; meter, 30c. 1000 gal. max., 8c. min.

OTTAWA, 12,000.
MUNICIPAL.
Supt., Mark Duffy.....Ottawa
Wells, four 1150 to 15550 ft. deep; impounding reservoirs, 2-1,300,000 gal.
Pumps, 2-2,500,000 gal. comp. duplex Worth.; air compressor, 135 cu. ft. Ingersoll-Rand; pumping to standpipe, 100,000 gal.
Pipe, 20 mi.; hyd. 168; meters, 1511; av. daily cons. 600,000 gal.; serv. con. 1511.
Rates; meter, $2 quarter, 30c. 1000 gal. max., 8c.

PALATINE, 1,144.
MUNICIPAL.
Engr. P'g. Sta., John Bergmann...Palatine

Well, 176 ft. deep; pump, 1-80,000 gal. Westg.

PANA, 6,000.
MUNICIPAL.
Mayor, H. N. Schuyler.....Pana
City Engr., A. C. Stanfield..... "
Impounding reservoir, 1-55,000,000 gal.; 2.75 mi. from center business section; settling basin, 70,000 gal.; mech. filter, 1,000,000 gal.; chemical, sulphate of alumina.
Boilers, 2 hor. 100-hp.; pumps, 2-500,000 gal. comp. duplex McGowan, 1-1,000,000 gal. Platt; elec. generator, 50 kva.; pumping to standpipe, 150,000 gal.
Pipe, 15 mi. 4 to 12-in.; hyd. 65; meters, 400; av. daily cons. 700,000 gal.; serv. con. 400; ord. pres. 40 lb., fire pres. 60 lb.
Rates; meter, $1.25 quarter, 30c. 1000 gal. max., 10c. min.

PARK RIDGE, 3,000.
MUNICIPAL.
Wells, two 190 & 1425 ft. deep; pumps, 1-200,000 gal. American, 1-170,000 gal. Cook driven by elec. motor, 20-hp. Westg.; purchase energy from Public Service company of Northern Illinois; pumping to elev. tank, 103,000 gal.
Pipe, 7 mi. 4 & 6-in.; meters, 550; av. daily cons. 150,000 gal.; serv. con. 550; ord. pres. 40 to 55 lb.
Rates; meter, $2.75 year 12,500 gal.

PARIS, 8,000.
MUNICIPAL.
Mayor, Z. T. Baum.....Paris
Chmn. Comrs., Geo. H. McCord..... "
City Engr., C. P. Lycan..... "
Impounding reservoir, 195,000,000 gal.; 1.5 mi. from center business section.
Pumps, 1-2,000,000 gal. tri. exp. Worth., one centrifugal; elec. generator, G. E.; pumping to standpipe, 106,000 gal.
Pipe, 22 mi. 2 to 12-in.; meters, 15; av. daily cons. 170,000 gal.; serv. con. 1000; ord. pres. 15 lb., fire pres. 100 lb.
Rates; flat, $5 year; meter, 5c. 1000 gal.

PAXTON, 3,000.
MUNICIPAL.
Town Clerk, Edward M. Grayson...Paxton
Wells, three to 6 8-in. 142 to 148 ft. deep & impounding reservoir, 100,000 gal.
Boiler, 80-hp. Phoenix; pumps, 3 deep well Cook, 1-600,000 gal. triplex Goulds, driven by elec. motors, three 10, 20 & 50-hp. 1902; steam engine, 65-hp. N. Y. Safety; pumping to elev. tank, 23,000 gal. wood.
Pipe, 6.5 mi. 3 to 6-in.; hyd. 58; valves 5; meters 600; av. daily cons. 138,000 gal.; serv. con. 600; ord. pres. 40 lb., fire pres. 80 lb.
Rates; meter, $3 year, 25c. 1000 gal. max., 15c. min.

PEARL 842.
PRIVATELY OWNED.
Owner, Dr. Thurman.....Pearl
Impounding reservoir, 28,500 gal.; ¾ mi. from center business section.
Pipe, 1.5 mi. 2 & 3-in. w. i.; av. daily cons. 14,400 gal.
Rates; flat, $8 year.

PEARL CITY, 485.
MUNICIPAL.
Town Clerk, M. W. Hooker.....Pearl City
Wells, 2, 45 ft. deep; near center of distribution.
Pumps, 1-1,152,000 gal. simplex Gould belted to elec. motor, 1½ kw. 110 v. s. ph. 60 cys. Century; elec. energy from Lena Elec. Lt. & Pwr. Co.; pumping to elevated tank, 50,000 gal.
Pipe, 1¾ mi. 4 to 12-in. c. i.; hyd. 15, hose con. 2½-in. H. & H.; valves, 6 r. h. thd. Clow; av. daily cons. 15,000 gal.; serv. con. 60; ord. pres. 40 to 56 lb., fire pres. 40 to 60 lb.

PECATONICA, 1,022.
MUNICIPAL.
Mayor, W. S. Merritt.....Pecatonica
Comr., Ray Eaton..... "
" John Marks..... "
Vil. Clerk, W. J. De La Mater... "
Well, 15 ft. in diam. 22 ft. deep; ¼ mi. from center business section; no purification.
Boiler, return tubular 40-hp. 100 lb. Rockford 1900; hand stoking; pumps, 2-20,000 gal. hor. tri. exp. d. act. Deane & Holyoke 1890 & 1902; pumping to standpipe, 3000 gal.
Pipe, 2.5 mi. 4 to 8-in. c. i.; hyd. 25; av. daily cons. 2000 gal. 80%; serv. con. 183; ord. pres. 80 lb., fire pres. 160 lb.
Rates; flat, $5 year, bath $3, closet, $3.

PEKIN, 9,879.
PEKIN WATERWORKS CO.
Pres., W. B. Aydelott.....Pekin
Sec., Treas. & Supt., W. E. Lantz.... "
Cons. Engr., Alvord & Burdick....Chicago
Wells, 19, 8-in. 80 to 128 ft. deep; 2000 ft. from center of distribution.
Boilers, 4 hor. tubular 80 hp. Erie & Kewanee; hand stoking; pumps, 2-1,500,000 gal. Bla,e, 1-1,000,000 gal. Worth.; pumping to elevated tank, 190,000 gal., steel.
Pipe, 27 mi. 4 to 12-in. c. i.; hyd. 191, hose con. 2½-in. Ludlow; valves, 206 r. h. thd.; meters, 594 National and Thomson; av. daily cons. 1,150,000 gal.; serv. con. 3150; ord. pres. 60 to 72 lb., fire pres. 100 to 120 lb.
Rates: flat, $4 year, bath $2.50, closet $3.50; meter, 35c. 1000 gal. max., 10c. min.

PEORIA, 66,950.
PEORIA WATERWORKS CO.
Pres. Howard Knowles.....Galesburg
Sec. & Treas., C. E. Davenport..New York
Gen. Mgr., H. B. Morgan.....Peoria
Asst. Mgr., Henry Ringness..... "
Wells; 7 to 34 ft. in diameter, 40 to 90 ft. deep; 3 to 6 mi. from center of distribution.

Boilers, 6 water-tube 1400-hp. Heine; hand and mechanical stoking, Murphy; pumps, 4-31,000,000 gal. Worth., Allis C.; elec. motors, 250-hp. 220-440 v. 3 ph. 60 cys. Wagner; elec. energy from Central Illinois Light Co.; pumping direct into reservoir, 19,000,000 gal.

Pipe, 170 mi. 4 to 30 in. c. i.; hyd. 1408, hose con. 2½-in. to 4 Ludlow; valves, 1600 l. h. opening Ludlow; meters, 2000, av. daily cons. 10,000,000 gal.; serv. con. 14,000; ord. pres. 30 to 100 lb., fire pres same.

Rates: flat, $4 year, bath $3, closet $3; meters, 30c. per 1000 gal. max., 4c.min.

PEOTONE, 1,207.

MUNICIPAL.

Mayor, A. E. Harken.....Peotone
Town Clerk, Mr. Jurres..... "
Supt., H. C. Reser..... "

Well, 10-in. 135 ft. deep; near center business section.

Pumps, 1-288,000 gal. Goulds driven by gasoline engine, 15-hp. Columbian; pumping to elev. tank (1896) 59,000 gal. wood.

Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 19 Beaumont; meters 225 Buffalo; av. daily cons. 40,000 gal.; serv. con. 225; ord. pres. 41 lb., fire pres. 60 lb.

Rates; meter, 20c. 1000 gal.

PERU, 7,984.

MUNICIPAL.

Supt., Chas. Bensel.....Peru

Wells, four 1365 to 1505 ft. deep & impounding reservoir, 250,000 gal.

Boilers, 4 fire-tube 150-hp. 95 lb. Kewanee; pumps, 2-1,000,000 gal. comp. duplex Gordon; air compressor, Gordon 1898; pumping to standpipe, 190,000 gal.

Hyd., Chapman & Eddy; meters, 1500 National, Neptune & Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 1500; ord. pres. 43 to 104 lb., fire pres. 102 to 120 lb.

Rates; flat, $4 year; meter, 25c. 1000 gal. max., 10c. min.

PETERSBURG, 2,587.

MUNICIPAL.

Supt., Mr. Bishop.....Petersburg

Well, 25 ft. in diam. 44 ft. deep; boilers, 2 fire-tube 45-hp. 70 lb. Springfiled, 1-600,000 gal. duplex steam Buffalo, 2-1,000,000 gal. comp. steam Worth.; pumping to elev. tank, 185,000 gal. steel.

Pipe, 5 mi. 4 to 10-in.; hyd. 130; valves, 15; serv. con. 300; ord. pres. 35 to 65 lb.

Rates; flat.

PINCKNEYVILLE, 2,700.

MUNICIPAL.

Mayor, J. S. Templeton.....Pinckneyville

Bocamp Creek; no purification.

Boilers, two 100-hp. Kelley & Brownell; pumps, 1-1,500,000 gal. duplex Epping-Carpenter, 1-1,750,000 gal. duplex Worth.; pumping to elev. tank, 75,000 gal. steel.

Pipe, 5 mo. 4 to 8-in.; hyd. 45; serv. con. 550; ord. pres. 53 to 65 lb., fire pres. 175 lb.

Rates; flat, $6 year.

PIPER CITY, 700.

MUNICIPAL.

Vil. Pres., John Dougherty.....Piper City
Des. Engr., C. F. Helman..... " "

Wells, 3 tubular 70 ft. in diam.; pumps, 1-215,000 gal. triplex Goulds; gasoline engine, 20-hp. I. H. C.; pumping to elev. tank, 50,000 gal.

Pipe, 4.5 mi. 4 to 8-in. c. i.; hyd. 23; valves 30.

Rates; meter, 11.25 quarter 3000 gal., 35c. 1000 gal.

PITTSFIELD, 2,500.

MUNICIPAL.

Mayor, J. A. Allen.....Pittsfield
Mgr., J. E. Strong..... "

Well, 2200 ft. deep; pump, 1-40,000 gal.; gasoline engine, 10-hp. F. M.; pumping to elev. tank, 47,000 gal. steel.

Pipe, one mi. 4 to 8-in.; hyd. 14; serv. con. 5.

PLANO, 2,000.

MUNICIPAL.

Mayor, C. E. Jeter.....Plano

Well, 10 ft. in diam. 14 ft. deep; pumps, 2-200,000 gal. duplex Blake; pumping to elev. tank, 80,000 gal.

Pipe, 12 mi.; hyd. 30; serv. con. 400; ord. pres. 50 to 60 lb.

Rates; $2 quarter.

POLO, 2,000.

MUNICIPAL.

Supt., W. B. Richardson.....Polo
Engr. P'g Sta., John Boward..... "

Artesian wells, two 10 & 14-in. 1200 to 2100 ft. deep; ½ mi. from center business section.

Boilers, 3 return tubular 40-hp. 60 lb. G. & D. 1891; pumps, 2-750,000 gal. hor. simple d. act. Deane, 2-500,000 gal. vert. simple d. act. Deane; pumping to standpipe (1891) 26,000 gal.

Pipe, 8 mi. 3 to 8-in. c. i.; hyd. 52, hose con. 2½-in. Crane; valves, 36 r. h. opening Clow; meters, 250 various; av. daily cons. 350,000 gal.; serv. con. 600; ord. pres. 58 lb., fire pres. 58 to 150 lb.

Rates; flat, $3 6 mo., bath $1.50; closet $1.50.

PONTIAC, 6,090.

PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS. Office, 72 W. Adams St., Chicago.

Pres., Samuel Insull.....Chicago
V. Pres., Frank J. Baker..... "
" Charles A. Munroe..... "
" " John H. Gulick..... "
Gen. Supt., Geo. H. Lukes..... "
Pur. Agt., Geo. R. Jones..... "
Supt., V. V. Parshall.....Pontiac
Cons. Engr., J. L. Hechs.....Chicago
Chemist & Engr. P'g Sta.,
J. P. Murphy.....Pontiac

Vermillion River; one mi. from center business section; settling basins, 2; coagulating basins, 4-188,000 gal.; mech. filters, 3-1,500,000 gal. N. Y. C. Jewell; chemicals, sulphate of alumina & hypochlorite of lime.

Boilers, 3 water-tube 250-hp. 150 lb. Sterling 1900 & 1906; hand stoking; pumps, 2-600,000 gal. hor. comp. d. act. Gordon 1893, 1-2,160,000 gal. hor. American 1913, 1-1,440,-000 gal. hor. American 1913, 1-1,000,000 gal. hor. Goulds 1903, d. con. to elec. motors, 7.5, 10, 15 & 100-hp., 440 & 500 v., 3 ph. 60 cys. G. E. 1903 & 1913; pumping direct & to standpipe.

Pipe, 11 mi. 4 to 12-in. c. i. & cement; hyd. 91, hose con. 2½-in.; valves, 52 r. & l. h. opening; meters, 878 Neptune; av. daily cons. 388, 800 gal. 70%; serv. con. 1019; ord. pres. 45 to 50 lbs., fire pres. 45 to 70 lb.

Rates; meter, 25c. 1000 gal.

PRINCETON, 4,131.

MUNICIPAL.

Supt., W. I. Kendall.....Princeton

Wells, three 245 to 2550 ft. deep; impounding reservoir, 120,000 gal.

Pumps, 1-500,000 gal. simplex tandem Marsh, 1-720,000 gal. double act. Hudson-Sharp, 1-1,000,000 gal. comp. duplex tandem R. & D.; air compressors, 2 American & Chapman; elec. motor, 35-hp.; pumping to elev. tank, 55,000 gal. steel.

Pipe, 16 mi. 4 to 8-in. c. i.; hyd. 125; valves, 57; meters 1290; av. daily cons. 350,-000 gal.; serv. con. 1290; ord. pres. 45 to 70 lb., fire pres. 100 lb.

Rates; meter, $1 quarter 375 gal.

PRINCEVILLE, 982.

MUNICIPAL.

Vil. Pres., W. N. Hoag.....Princeville
Trustee, Chas. H. Anten..... "
Des. Engr., W. S. Shields Co.....Chicago

Well, 1600 ft. deep; near center distribution; pumping to elev. tank, 50,000 gal., Chiczgo Bridge & Iron Works.

Pipe, 4 mi. 4 to 8-in.; hyd. 43; valves 22.

PROPHETSTOWN, 1,500.

MUNICIPAL.

Vil. Pres., H. C. Adams.....Prophetstown

Wells & impounding reservoir, 65,000 gal.; meters, one; serv. con. 250.

QUINCY, 36,587.

CITIZENS WATERWORKS CO.

Pres., W. S. Govert.....Quincy
Sec., E. D. Pape..... "
Treas., H. C. Sprick..... "
Supt., W. R. Gelston..... "
Cons. Engrs., D. W. Mead and
C. V. Seastone.....Madison, Wis.

Mississippi River; 1½ mi. from center of distribution; coagulating basin, 2-1,113,000 gal.; mechanical filters, 6-1,000,000 gal.; chemicals, sulphate of alumina and hypochlorite of lime.

Boilers, 3 water-tube 200-hp. ea. Heine; hand stoking; pumps, 2 stream 6,000,000 gal. Platt and Worth., one centrifugal driven by steam turbine, 100-hp. Platt, one centrifugal driven by elec. motor, 100-hp. 440 v. 3 ph. 25 cys. G. E.; pumping direct and to reservoir, 18,000,000 gal.

Pipe, 70 mi. 4 to 24-in. c. i.; hyd. 410, hose con. 2½ to 4-in. R. D. W.; valves, r. h. opening Eddy; meters, 3950: av. daily cons. 3,000,000 gal.; serv. con. 6480; ord. pres. 110 lb., fire pres. same.

Rates: flat, $4 year; meters, min. charge $10 year, 45c. 1000 gal. max., 5c. min.

RANTOUL, 1,400.

MUNICIPAL.

Chmn. Comrs., V. McAllister.....Rantoul

Wells, two 10-in. 120 ft. deep; pumps, 2 single act. Cook; pumping to elev. tank, 40,000 gal. wood.

Pipe, 5 mi.; hyd. 9; meters 94; av. daily cons. 100,000 gal.; serv. con. 350; ord. pres. 45 lb., fire pres. same.

Rates; flat, $15 year; meter, 20c. 1000 gal. max., 8.5c. min.

RED BANK, 1,240.

MUNICIPAL.

Town Clerk, Fred D. Guker.....Red Bank

Well, 10-in. 294 ft. deep; near center business section; pump; elec. motor; pumping to elev. tank, 75,000 gal. steel.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 42; valves, 36; ord. pres. 61 to 74 lb.

RICH HILL, 3,755.

MUNICIPAL WATER, ELECTRIC LIGHT & GAS PLANT.

Mayor, A. T. Sheppard.....Rich Hill
City Clerk, E. R. McCuilty..... " "
Treas., W. W. Jamison..... " "
Supt. & Engr. P'g Sta., J. Larson.. " "

Boilers, 300-hp. Erie; steam engine, 175-hp. Ideal.

RIVERDALE, 917.

Supply from CHICAGO.

RIVER FOREST, 3,000.

MUNICIPAL.

Supt., Karl M. Mitchell.....River Forest

Wells, two 8 to 12-in. 100 ft. deep & impounding reservoir, 150,000 gal.

Boiler, 50-hp. Union; pumps, 2-750,000 gal. duplex Blake, 4 single American; air compressors, 3 Platt & Ingersoll-Rand, driven by elec. motors, two 30 & 40-hp. 220 v. 3 ph. 60 cys. Westg.; purchase energy from Public Service Co. of Northern Illinois; pumping to elev. tank, 54,000 gal. steel.

Pipe, 25 mi. 4 to 12-in.; meters, 600; av. daily cons. 250,000 gal.; serv. con. 1200; ord. pres. 40 lb., fire pres. 100 lb.

Rates; meter, min. charge $1 quarter, 18c. 1000 gal.

RIVERSIDE, 2,000.

MUNICIPAL.

Comr. Pub. Wks.

Frank Fredericks.....Riverside

Wells, two 1000 & 2000 ft. deep & impounding reservoir, 500,000 gal.

Pumps, 2-500,000 gal. double act. Luitweiler, 3-900,000 gal. American 1913, driven by elec. motors, two 20 & 25-hp. 220 v. 60 cys. Western; purchase energy from Public Service Co. of Northern Illinois; pumping to elev. tank (1913) 135,000 gal.

Pipe, 20 mi. 4 to 8-in. c. i.; hyd. 168; valves 76; meters 400; ord. pres. 47 lb., fire pres. 85 lb.

Rates; meter, $10 year, 15c. 1000 gal.

ROBERTS, 466.

MUNICIPAL.

Supt., S. S. Newman.....Roberts

Wells, 4-in. 238 ft. deep.

Pumps, driven by gasoline engine, 50-hp.

Hye. 16, hose con. 3-in.; meters, 86 Buffalo; av. daily cons. 5,000 gal.; serv. con. 86; ord. pres. 32 lb., fire pres. same.

ROCHELLE, 2,732.

MUNICIPAL.

Supt., Charles F. Lathrop.....Rochelle

Impounding reservoir, 240,000 gal. & wells, two 6 & 10-in. 900 & 1900 ft. deep; ¼ mi. from center business section.

Boilers, 3 hor. return tubular 150-hp. ea. 100 lb. Kewanee; hand stoking; pumps, 2-600,000 gal. hor. simple d. act. Worth.; air compressors, 2 steam Ingersoll-Rand & Norwalk; pumping to standpipe.

Pipe, 8.5 mi. 4 to 8-in. c. i.; hyd. 80, hose con. 2½-in.; meters, 800 various; av. daily cons. 600,000 gal.; serv. con. 800; ord. pres. 45 lb., fire pres. 80 lb.

Rates; meter, $1.50 6 mo., 20c. 100 cu. ft. max., 6c. min.

ROCK ISLAND, 24,335.

MUNICIPAL.

Mayor, H. M. Schriber.....Rock Island
Comr., C. M. Rueecrem..... " "
" R. E. Hart..... " "
Robert E. Reynolds.... " "
Supt. & Chemist, R. W. Sharp. " "
Ch. Engr. P'g. Sta., W. H. Wise " "

Mississippi River; ½ mi. from center of distribution, settling basins, 2-2,500,000 gal.; mechanical filters, 6,000,000 gal.; chemical, hypochlorite of lime.

Boilers, 4 return tubular 150-hp. Brownville; hand stoking; pumps, 1-8,000,000 gal. Snow; elec. motor, 4 kw. 440 v. 3 ph. 60 cys. West. & Allis C.; elec. energy from Peoples' Power Co.; pumping, to reservoir, 5,000,000 gal. and elevated tank (1914), 500,000 gal., steel.

Pipe, 52 mi. of 4 to 16-in. c. i.; hyd. 479, hose con. 3½-in., Iowa and Darling; valves, r. h. thd. Iowa and Darling; meters, 1580 National, Neptune and Hersey; av. daily cons. 3,500,000 gal.; serv. con. 5800; ord. pres. 55 lb., fire pres. same.

Rates: flat, $5 year; meter, 15c. 100 cu. ft. mac., 6c. min.

ROCKFORD, 45,401.

MUNICIPAL.

Supt., Ross Beckstrom.....Rockford

Wells, 6-1500 ft. deep, 5-450 ft. deep; reservoirs, 2-5,500,000 gal.; no purification.

Boilers, 4 hor. return tubular 150-hp. ea. Erie; pump, one com. 10,000,000 gal. Snow; one comp. 10,000,000 gal. Gaskell; pumping direct.

Pipe, 113 mi. 2 to 20-in. c. i.; hyd. 170 Renssalaer, Holly and Roe Stephens; valves, 1450 mostly Rensselaer; meters, 8652, various; av. daily cons. 2,866,000 gal.; serv. con. 9305; ord. pres. 65 lb.

Rates: meter, min. charge 80c. quarter, 12c. 100 cu. ft. max., 9c. min.

ROCKPORT, 1,053.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mgr., James Sliger.....Rockport
Engr. P'g Sta., Guy Anderman... "

Boiler, 210-hp. Erie; steam engine, 125-hp.

ROODHOUSE, 2,171.

MUNICIPAL.

Mayor, Frank Thompson.....Roodhouse
Town Clerk, Wm. Jolly..... "

Wells; pump, 1-300,000 gal. triplex Goulds driven by gasoline engine, 15-hp. I. H. C.; pumping to elev. tank, 60,000 gal. steel.

Pipe, 4 mi. 4 to 8-in.; hyd. 24 Rensselaer; av. daily cons. 65,000 gal.; serv. con. 147.

Rates; flat, $6 year; meter, $1.59 mo., 20c. 1000 gal. max., 6¼c. min.

ROSSVILLE, 1,422.

MUNICIPAL.

Mayor, Geo. L. Merritt.....Rossville
Supt., S. Garner..... "

Deep wells.

Boilers, 35-hp.; hand stoking; pumping to standpipe (1900), iron.

RUSHVILLE, 2,500.

MUNICIPAL.

Chmn. Comrs., W. G. Stremmel..Rushville

Impounding reservoir, 1,250,000 gal. & wells, two 12 ft. in diam. 22 & 1510 ft. deep.

Pumps, one deep well American, 1-420,000 gal. simple duplex Deane, 1-210,000 gal. simple duplex Deane, 2-360,000gal. Alberger; elec. motor, 30-hp. 115 v. s. ph. 60 cys. Wagner; oil engine, 30-hp. Remington; purchase energy from Central Illinois Pub. Serv. Co.; pumping to standpipe, 115,000 gal.

Pipe, 9.8 mi. 4 to 10-in. c. i. & wood; hyd. 39; valves, 16; meters, 113 Hersey, Neptune & Pittsburgh; av. daily cons. 17,000 gal.; serv. con. 115.

Rates; meter, 50c. 500 gal. max., 45c. min.

ST. ANNE, 1,065.

PUBLIC SERVICE COMPANY OF NORTHERN ILLINOIS. Office, 72 West Adams St., Chicago.

Pres., Samuel Insull.....Chicago
V. Pres., Frank J. Baker..... "
" " Charles A. Munroe..... "
" " John H. Gulick..... "
Gen. Supt., Geo. H. Lukes..... "
Pur. Agt., Geo. R. Jones..... "

Local Supt., B. G. Smith.....St. Anne
Wells, 6-in. 180-ft. deep; near center business section; no purification.
Boiler, fire-tube 60-hp. 80 lb. Erie 1910; hand stoking; pumps, 1-86,400 gal. Deming 1-1,566,000 gal. Deming; steam engine, 100-hp. Ide; pumping to elev. tank, 20,000 gal.
Pipe, 2.72 mi. 4 to 8-in.; hyd. 33, hose con. 2½-in.; valves, 9; meters, 37; av. daily cons. 22,000 gal.; serv. con. 173; ord. pres. 30 to 35 lb., fire pres. 30 to 90 lb.
Rates; flat, $6 year, bath $4, closet $4; meter, 50c. mo., 60c. 1000 gal. max., 35c. min.

ST. CHARLES, 5,100.
MUNICIPAL.
Supt., Geo. Allen.....St. Charles
Wells, two 10-in. 300 to 850 ft. deep & impounding reservoir, 50,000 gal.
Pumps, 1-151,000 gal. American, 1-172,-000 gal. American, 1-1,440,000 gal. duplex Worth.; elec. motor, d. c. 25-hp. G. E.; pumping to elev. tank, 100,000 gal. steel.
Pipe, 13 mi. 4 to 10-in. c. i.; hyd. 119 Eddy & Ludlow; valves, 30; meters, 400 Badger, Hersey, Neptune, Pittsburgh & Worth.; av. daily cons. 287,000 gal.; serv. con. 400; ord. pres. 35 to 75 lb., fire pres. 100 lb.
Rates; meter, 50c. mo., 30c. 1000 gal.

ST. ELMO, 1,500.
Privately owned.
Owner, P. M. Johnson.....St. Elmo
Impounding reservoir, 10,000,000 gal. on Sugar Creek.
Boiler, tubular 80-hp. Oil City; pumps, 1-350,000 gal. comp. duplex Deane; pumping to elev. tank, 60,000 gal.
Pipe, 2.5 mi. 4 to 8-in.; hyd. 14; meters 8; av. daily cons. 100,000 gal.; serv. con. 100; ord. pres. 45 lb., fire pres. same.
Rates; flat, $10.50 year; meter, 10c. 1000 gal. max., 7c. min.

SALEM, 2,669.
MUNICIPAL.
Chmn. of Comrs., R. D. Wyatt.....Salem
Comr., Byron Brunendike..... "
" D. A. Rogers..... "
" R. Quale..... "
Supt. & Engr. P'g. Sta.,
W. F. Hines..... "
Impounding reservoir; ¾ mi. from center distribution; no purification.
Pumps, driven by elec. motors, 30 kw. 220 v. 3 ph. 60 cys. Westg.; pumping to elevated tank, 100,000 gal., steel.
Pipe, 15 mi. 4 to 12-in.; hyd. 50, hose con. 3-in. Iowa; valves, 20 r. h. thd.; meters, 400 Buffalo; av. daily cons. 150.000 gal.; serv. con. 400; rd. pres. 72 lb.

SANDWICH, 2,557.
MUNICIPAL.
Town Clerk, E. L. Ingersoll.....Sandwich
Wells, three 8 to 12-in. 120 ft. deep & impounding reservoir, 17,000 gal.; near center business section.
Pumps, one Worth., 1-432,000 gal. American, 1-1,000,000 gal. American; pumping to standpipe.
Valves, 54; meters, 125; serv. con. 625.

SAVANNA, 3,091.
MUNICIPAL.
Supt., L. W. Bowen.....Savanna
Wells, two 5 to 8-in. 1500 ft. deep; near center business section; no purification.
Boilers, two 100-hp. 150 lb. B. & W. 1912; hand stoking; pumps, 1-750,000 gal. hor. comp. d. act. Worth. 1898, 1-2,000,000 gal. hor. comp. d. act. Worth 1898, 1-2,000,000 gal. hor. comp. c. & f. wh. L-D-G 1912; dumping to reservoir.
Pipe, 5 mi. 2 to 10-in.; hyd. 75, hose con. 2½-in. Ludlow; valves, 45 r. & l. h. opening Eddy & Ludlow; av. daily cous. 650,000 gal.; serv. con. 1280; ord. pres. 85 lb., fire pres. same.
Rates; flat, $6 year, bath $2, closer $2; meter 15c. 1000 gal. max., 6c. min.

SHELBYVILLE, 3,590.
CITY WATER CO OF SHELBYVILLE.
Pres., B. F. Street.....Shelbyville
Gen. Mgr. & Engr., E. L. Street "
Mgr., C. E. Chester..... "
Wells, 23, 6-in. 25 to 30 ft. deep; settling basin, 2,000,000 gal.; chemicals, copper sulphate.
Boilers, 2 fire-tube 150-hp. ea. Manistee; hand stoking; pumps, 1-1,000,000 gal. Worth hand stoking; pumps, 1-1,000,000 gal. Worth., 1-1,500,000 gal. Epping-Carpenter, 1-2,500,000 gal. centrifugal; Alberger pumping to reservoir and standpipe (1885), iron.
Pipe, 10 mi. 4 to 12-in. c. & w. i.; hyd. 93, hose con. 3½-in. Ludlow and Rensselaer; valves, 65 l. h. opening, Ludlow and Kennedy; meters, 5600 National, Hersey and Neptune; av. daily cons. 400,000 gal.; serv. con. 900; ord. pres. 60 lb., fire pres. 100 lb.
Rates: meter, 25c. 1000 gal.

SHELDON, 1,143.
MUNICIPAL.
Comr., Chas. Warren.....Sheldon
" William Bouton..... "
" William Clark..... "
Engr. P'g. Sta., F. D. Clark..... "
Wells, two 6 to 10-in. 116 to 1850 ft. deep; no purification.
Pumps, 1-120,000 gal. vert. single Goulds 1898 belted to gasoline engine, 30-hp. Columbus 1898; elec. motor, 5-hp. 210 v. 3 ph. 60 cys. 1915; purchase energy from Central Illinois Public Service Co.; pumping to elev. tank (1898) 40,000 gal. brick.
Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 36, hose con. 3-in. Rensselaer; valves, 12 r. h. opening; serv. con. 300; ord. pres. 45 lb.
Rates; flat, $6 year, bath $2; closet $3; meter, 35c. 1000 gal.

SPARTA, 3,081.
SPARTA GAS & ELECTRIC CO.
Supt. & Engr. P'g. Sta., C. Gough...Sparta
Present system is a makeshift using old natural gas mains. City will probably

install waterworks during the coming year at a cost of about $75,000.

STAUNTON, 5,048.
MUNICIPAL.
Supt., Chas. Schneers.....Staunton
Impounding reservoir; pumps, 1-750,000 gal. comp. duplex steam Deane, 2-750,000 gal. Alberger.
Pipe, 10.5 mi. 4 to 8-in. ;hyd. 72; meters; serv. con. 200; ord. pres. 50 to 73 lb.
Rates; flat, $6 year; meter, 22.5c. 1000 gal. max., 8c. min.

STEGAR, 2,161.
MUNICIPAL.
Supt., H. B. Rance.....Stegar
Lake, 12-in. 318 ft. deep; pumps, 1-576,-000 gal. double act. American; elec. motor, 25-hp. Westg.; energy Public Service Co. of Northern Illinois; pumping to elev. tank, 100,000 gal. steel.
Pipe, 5 mi. 4 to 8-in.; hyd. 52; valves, 22; meters, 200; av. daily cons. 35,000 gal.; serv. con. 200; ord. pres. 50 lb.
Rates; meter, $1.75 quarter, 24c. 1000 gal. max., 20c. min.

STERLING, 7,467.
STERLING WATER CO.
Pres. & Treas., C. P. Baxter.....Sterling
Sec. & Supt., Judson Decker..... "
Wells, 4, 8-in. 1434 to 1838 ft. deep; no purification.
Boilers, 3 150-hp ea.; hand stoking; pumps, 3-7,000,000 gal. Prescott and Deane; pum ing to reservoir, 300,000 gal. and standpipe (1885), steel.
Pipe, 35 mi. 4 to 16-in. c. i.; hyd. 181, hose con. 2½-in. Coffin and Eddy; valves, r. h. thd. Coffin and Eddy; meters, 1650 National and Neptune; av. daily cons. 700,000 gal.; serv. con. 2300; ord. pres. 60 lb., fire pres. 60 to 125 lb.
Rates: flat, $1.50 quarter, bath $1, closet $1; meter, min. charge $2.25 quarter 9000 gal., 25c. 1000 gal. max., 10c. min.

STEWARD, 353.
STEWARD ELECTRIC LIGHT & WATER Co.
Owner & Supt., C. P. Bertel.....Steward
Mgr. & Engr. P'g. Sta., L. B. Bertel "
Wells, 8-in. 100 ft. deep; no purification.
Pump, 1-72,000 gal. F. M. belted to oil engine, 25-hp. F. M.; pumping to reservoir, 10,000 gal.
Pipe, one mi. 4 to 6 in. c. i.; hyd. 14, hose con. 2½-in. Kupferle; valves, l. h. thd. Crane; meters, 20 Neptune and Niagara; av. daily cons. 6000 gal.; serv. con. 25; ord. pres. 40 to 50 lb.; fire,pres. 40 to 70 lb.
Rates: flat, $6 year; meter, 25c. 100 cu. ft.

STOCKTON, 1,500.
MUNICIPAL.
Vil. Pres., A. M. Smith.....Stockton
Well, 5 to 12-in. 1500 ft. deep & reservoir, 500,000 gal.
Pumps, 1-288,000 gal. Downey, one centrifugal 1914 driven by elec. motor, 30-hp.; energy from local Elec. Light Co.; pumping to elev. tank, 100,000 gal. steel.
Pipe, 2.5 mi. 4 to 8-in c. i.; hyd. 25; meters, 220 Pittsburgh; serv. con. 225; ord. pres. 40 to 48 lb.
Rates; meter, $1.25 quarter, 35c. 1000 gal.

STONINGTON, 1,150.
MUNICIPAL.
Mayor, Dr. W. H. Sailing.....Stonington
Engr. P'g. Sta., Mr. Culbertson.. "
Wells, two 6-in. 40 ft. deep; boilers, 2 tubular 60-hp. 90 lb.; pumps, 1-105,000 gal. Cook; pumping to elev. tank, 50,000 gal.
Pipe, 1.25 mi.; hyd. 7 Rensselaer; valves, 5 Crane; meters, 32 Sheffler & Gem; av. daily cons. 70,000 gal.; serv. con. 32; ord. pres. 40 lb., fire pres. same.
Rates; meter, $1.50 quarter, 25c. 1000 gal. max., 10c. min.

STREATOR, 14,253.
STREATOR AQUEDUCT CO.
Pres., Donald Birnie.....Streator
V. Pres. & Supt., C. E. Huggans... "
Treas., Marvin C. Birnie..... "
River; 3 mi. from center of distribution; impounding reservoir, 220,000,000 gal.; settling basins, 3-900,000 gal.; mechanical filters, 2,500,000 gal.; chemicals, sulphate of alumina and hypochlorite of lime.
Boilers, 5 tubular 500-hp. Jones; hand stoking; pumps, 1-500,000 gal. Holly; pumping direct.
Pipe, 36 mi. 4 to 16-in. c. i.; hyd. 280, hose con. 2½ and 4-in. Chapman and Holyoke; valves, 275 r. h. opening Chapman meters, 540 National; av. daily cons. 2,000,000 hsl.; serv. con. 3814; ord. pres. 40 to 45 lb., fire pres. 70 to 90 lb.
Rates: flat, $6 year, bath $3 closet $3; meters, min. charge $9 year, 30c. 1000 gal. mac., 8c. min.

SULLIVAN, 3,621
MUNICIPAL ELECTRIC LIGHT & WATER-WORKS.
Supt., Hugh Hoke.....Sullivan
Wells, four 8 to 10-in. 80 to 300 ft. deep; boilers, 2 hor. tubular 150-hp. 125 lb. Chandler Taylor 1910 & Brownell 1904; pumps, 2-12,000 gal. vert. d. act. F. M. 1895; elec. motor, 7½-hp. 220 v. 3 ph. 60 cys. G. E. 1914; pumping to elev. tank (1897) 80,-000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 39, hose con. 2½-in. Eddy; valves, 9 r. & l. h. opening Crane; meters, 60 Buffalo, Neptune & Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 365; ord. pres. 40 lb., fire pres. 65 lb.
Rates; flat, $5 year; meter, 50c. 1000 gal.

SUMMIT, 949.
MUNICIPAL.
Vil. Pres., E. H. Wilson.....Summit
" Cler, Leslie Johnstone..... "
Supt., John D. Welsh..... "
Engr. P'g. Sta., Joseph Clute..... "
Wells, 2 8 & 16-in. 1350 & 1855 ft. deep;

1½ mi. from center of distribution; reservoirs, 2-75,000 gal.; no purification.

Pumps, 1-360,000 gal. Keystone belted to gasoline engine, National; pumping to standpipe (1906), 60,000 gal., steel.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 150, hose con. 3-in.; valves, 170; av. daily cons. 300,000 gal.; ord. pres. 35 lb., fire pres. 60 ln.

Rates: meter, 15c. 1000 gal.

SYCAMORE, 4,000.

CENTRAL ILLINOIS PUBLIC SERVICE COMPANY. Office, Mattoon, Ill. For officers, see Mattoon. (Controlled by Middle West Utilities Co., 112 W. Adams St., Chicago, Ill.)

Loc. Supt., Axel Stroberg.....Sycamore

Wells, two 10 & 12-in. 905 ft. deep; pumps, 2-1,000,000 gal. double act. Erb & Downey driven by elec. motor, 30-hp.; pumping to elev. tank, 175,000 gal. steel.

Pipe, 15 mi. 4 to 12-in.; hyd. 119; valves, 140; meters, 615; av. daily cons. 299,000 gal.; serv. con. 796; ord. pres. 55 lb., fire pres. same.

Rates; meter, $1 quarter, 16c. 1000 gal. max., 6c. min.

TAMPICO, 900.

MUNICIPAL.

Pres. Vil., John H. Daley.....Tampico

Wells, three 25 ft. deep; near center business section.

Pumps, 1-288,000 gal. hor. duplex F. M. driven by gasoline engine, 12-hp.; pumping to elev. tank, 40,000 gal. steel.

Pipe, 2 mi. 4 to 8-in.; hyd. 25; valves, 16; serv. con. 30; ord. pres. 45 lb., fire pres. same.

TAYLORVILLE, 5,446.

MUNICIPAL.

Supt., Thos. Lusk.....Taylorville
Engr. P'g. Sta., Marion Brown... "

Impounding reservoir, 70,000 gal. & wells, eight 8-in. 96 ft. deep; near center business section.

Boilers, three 100 & 150-hp. 120 lb. H. S. G. 1914; hand stoking; pumps, 1-648,000 gal. hor. comp. d. act. Epping-Carpenter 1914, 2-327,000 gal. hor. comp. d. act. Holly 1908, 3-327,200 gal. hor. comp. d. act. Deane, 6 deep well pumps; pumping direct.

Pipe, 25 mi. 4 to 8-in.; hyd. 124, hose con. 2½-in. Ludlow; valves, 72 r. & l. h. opening Ludlow; meters, 490 Buffalo, National, Neptune & Hersey; av. daily cons. 500,000 gal. 25%; serv. con. 1700; ord. pres. 60 lb., fire pres. 60 to 80 lb.

Rates; flat, $5 year, bath $3, closet $3; meter, min. charge $1.50 quarter 6000 gal.

THOMSON, 487.

MUNICIPAL.

Vil Clerk, C. A. Mason.....Thomson
Engr. P'g. Sta., C. M. Beck..... "

Wells, 3-in. 40 ft. deep; in center of village.

Pumps, 1-10,000 gal. Curtis driven by oil engine, 12-hp. Stover; pumping to elevated tank, 30,000 gal. wood.

Hyd. 8, hose con. 2½-in.; valves, 4 r. h. thd.; av. daily cons. 3000; serv. con. 60.

TISKILWA, 857.

MUNICIPAL.

Vil. Pres., C. E. Kitterman.....Tiskilwa

Spring & impounding reservoir, 25,000 gal.

TOLONO, 760.

MUNICIPAL.

Supt., James Shields..... Tolono

Wells; near center business section.

Boiler, hor. 20-hp. 90 lb. Atlas; pumps, 2-136,000 gal. vert. simple d. act. Cook; pumping to elev. tank (1895) wood..

Pipe, 5.5 mi. 4 to 8-in. c. i.; hyd. 24, hose con. 2½-in. F. M.; valves, 8 l. h. opening F. M.; meters, 27 Buffalo; av. daily cons. 136,000 gal. 33%; serv. con. 118; ord. pres. 40 lb., fire pres. 80 lb.

Rates; flat, $8 year; meter, 20c. 1000 gal.

TOLUCA, 2,407.

MUNICIPAL.

Artesian well, 2000 ft. deep & impounding reservoir, 11,000 gal.

Boiler, 60-hp.; pumps, 1-216,000 gal. F. M., 1-350,000 gal. duplex F. M.; pumping to elev. tank, 40,000 gal. steel.

Pipe, 1.5 mi. 4 & 6-in.; hyd. 18; serv. con. 250; ord. pres. 40 lb.

TOULON, 1,200.

MUNICIPAL.

Supt., H. B. Davis.....Toulon

Well, 1500 ft. deep; near center business section.

Pumps, 1-172,800. gal. hor duplex Luitweiler 1911, 1-432,000 gal. American 1911; energy from Toulon Light & Power Co.; pumping to standpipe (1911) 52,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 28, hose con. 2½-in.; valves, 18 l. h. opening; meters, 180; av. daily cons. 25,000 gal.; serv. con. 180; ord. pres. 40 to 42 lb., fire pres. 80 lb.

Rates; meter, $2.10 quarter 6000 gal., 35c. 1000 gal. max., 30c. min.

TREMONT, 850.

MUNICIPAL.

Chmn. Comrs., Henry Schmutz...Tremont

Well, 132 ft. deep; pumps, 1-188,640 gal. Luitweiler driven by gasoline engine; pumping to elev. tank, 40,000 gal. steel.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 22 Iowa; valves, 16; meters, 68 Neptune; av. daily cons. 17,000 gal.; serv. con. 81; ord. pres. 50 lb.

Rates; $7 year, bath $2, closet $2; meter, 40c. 1000 gal.

TRENTON, 1,694.

MUNICIPAL.

Supt., J. T. Wilson.....Trenton

Wells, 4 234 ft. deep & impounding reservoir, 450,000 gal.

Boilers, 2 fire-tube 80-hp. 90 lb. O'Brien; pumps, 1-25,000 gal. Cook; 2-22,000 gal. gal. s. act. Goulds, 1-750,000 gal. comp. duplex Epping-Carpenter; elec. motor, 3-hp. 115 v.; elec. generators. 3.

Pipe, 2.25 mi. 4 to 8-in. c. i.; hyd. 18 Rensselaer; meters, 42 Buffalo & Neptune; av. daily cons. 2700 gal.; serv. con. 42; ord. pres. 40 lb., fire pres. 90 lb.

Rates; meter, 35c. 1000 gal. max., 25c. min.

TUSCOLA, 2,453.

CENTRAL ILLINOIS PUBLIC SERVICE Co. Office, Mattoon, Ill. For officers, see Mattoon. (Controlled by Middle West Utilities Co., 112 W. Adams St., Chicago, Ill.)

Loc. Supt., H. A. Wehrle.....Tuscola
Engr. P'g. Sta., O. R. Laughlin.... "

Impounding reservoirs, 2-200,000 gal. & well, 8-in. 3000 ft. deep; near center business section; settling basins; 2-2,000,000 gal.

Boilers, 4 fire-tube 150-hp. 110 lb. Ames 1906 & Atlas 1913; pumps, 2-72,000 gal. ea. hor. comp. d. act. Platt 1900, 1-57,600 gal. vert. single Hill 1900; air compressor, steam Ingersoll-Rand 1900; pumping direct.

Pipe, 14 mi. 4 to 10-in. c. i.; hyd. 50, hose con. 2½-in. Rensselaer; valves, 10 r. h. opening various; meters, 150 Buffalo, Hersey & Worth.; av. daily cons. 750,000 gal.; serv. con. 165; ord. pres. 40 to 60 lb., fire pres. 80 to 120 lb.

Rates; meter, 50c. 1000 gal. max., 30c. min.

URBANA, 8,245.

Supplied by Champaign & Urbana Water Co. See Champaign.

UTICA, 1,000.

MUNICIPAL.

Mayor, Dr. K. W. Leland.....Utica

Wells, 5 225 to 350 ft. deep; gravity distribution.

Pipe, 2½ to 4-in. w. & galv. i.; av. daily cons. 1,000,000 gal.; serv. con. 115.

Rates; flat, $5 year.

VANDALIA, 2,974.

MUNICIPAL.

Mayor, W. F. Smith.....Vandalia

Kaskaskia River.

Boiler, tubular 40-hp. Stookey; pumps, 1-675,000 gal. comp. duplex F. M., 1-575,000 gal. comp. duplex Worth. driven by elec. motors, 35-hp.; pumping to standpipe, 65,000 gal.

Pipe, 10 mi. 4 to 8-in.; meters, 38; av. daily cons. 140,000 gal.; serv. con. 350; ord. pres. 32 to 62 lb., fire pres. same.

Rates; $1 year, closer $2; meter, $1.50, $25c. 1000 gal. max., 8c. min.

WALNUT, 763.

MUNICIPAL.

Well, 265 ft. deep; pumping to standpipe.

Pipe, one mi.; hyd. 25; valves, 2; meters, 50; serv. con. 128.

WASHINGTON, 1,530.

MUNICIPAL.

Well, 8-in. 90 ft. deep; pump, one Goulds driven by elec. motor, 15-hp. G. E.; energy from Peroia Gas & Elec. Co.; pumping to standpipe, 85,000 gal.

Pipe, 4 & 6-in. c. i.; serv. con. 350; ord. pres. 45 lb.

WATERLOO, 2,091.

MUNICIPAL.

Mayor, F. E. Lutz.....Waterloo
Comr., H. C. Boelme..... "
" J. W. F. Binder..... "
" J. B. Sendelbeck..... "
Supt. & Engr. P'g. Sta.,
Henry Feldmeier..... "

City Lake and springs; 1½ mi. from center distribution.

Boilers, 3, 80-hp. Springfield and O'Brien; hand stoking; pumps, 2-1,000,000 gal.; pumping direct and to reservoir.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 4-in.; valves, 12 r. h. thd. Crane; meters, 4; av. daily cons. 900,000 gal.; serv. con. 230; ord. pres. 75 to 125 lb., fire pres. 150 to 175 lb.

WATERMAN, 400.

MUNICIPAL.

Vil. Pres., C. H. Wilkinson.....Waterman

Well, tubular 73 ft. deep; pipe, 6.5 mi.; hyd. 8; meters, 2; serv. con. 45.

WATSEKA, 2,000.

MUNICIPAL.

Comr., John L. Smily.....Watseka
" A. C. Harwood..... "
" Geo. F. Gregory..... "
Town Clerk, P. A. Sprague..... "

Wells, two 6-in. 162 ft. deep; pumps, one vert. triplex Goulds 1914 driven by elec. motor, 15-hp.; pumping direct & to standpipe (1892).

Pipe, 4 mi. 4 & 6-in. c. i.; hyd. 60, hyd. 60, hose con. 2½-in.; valves, 12 l. h. opening various; meters, 500 Pittsburgh; ord. pres. 40 to 60 lb.

Rates; meter, 25c. 1000 gal. max., 15c. min.

WAUKEGAN, 16,069.

MUNICIPAL.

Mayor, Julius Bidinger'.....Waukegan
Comr., E. V. Orvis..... "
" Clarence Diver..... "
" Carl Alterberry..... "
" John Deitmeyer..... "
Supt. & Engr. P'g. Sta.,
W. J. Allen..... "

Lake Michigan; one mi. from center of distribution chemical, hypochlorite of lime.

Boilers, 2 75-hp. ea. Kewanee and one 250-hp. Marine; pumps, 3-11,000,000 gal. Deane and Prescott; pumping direct.

Pipes, 37 mi. 4 to 16-in. c. i.; hyd. 400, hose con. 2½-in. various; meters, 150

various; av. daily cons. 3750,,000 gal.; ord. pres. 75 lb., fire pres. 125 lb.

Rates: flat, $5, closet $2; meter, 18c. 1000 gal.

WELDON, 521.

MUNICIPAL.

Chm. Comrs., R. W. Railsback....Weldon
Comr., L. F. Webb..... "
" H. G. Swigart..... "
Engr. P'g. Sta., Geo. Gallaher..... "

Well, 9 ft. in diam. 42 ft. deep; near center of distribution.

Boiler, one hor. 50-hp. Green; hand stoking; pumps, 1-192,000 gal.; pumping to elevated rank, 17,000 gal.

Pipe, ½ mi. 4 to 12-in. gal. i.; hyd. 6, hose con. 2-in. Allen; av. daily cons. 4000 gal.; serv. con. 200; ord. pres. 25 lb.

Rates: flat, 50c. mo., bath and closet $1; 35c. 1000 gal. max., 10c. min.

WENONA, 1,500.

MUNICIPAL.

Artesian well, 1850 ft. deep; 1-150,000 gal. Downey.

WEST CHICAGO, 2,378.

MUNICIPAL.

Supt., F. E. Schacht.....West Chicago

Wells, 2, 12-in. 322 & 775 ft. deep.

Boilers, 2, 80-hp.; hand stoking; pumps, 3-432,000 gal. Platt; pumping to standpipe (1896) steel.

Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 90, hose con. 2½-in. R. D. W.; valves, 22 l. h. thd. Eddy; meters, 550 National and Neptune; av. daily cons. 100,000 gal.; serv. con. 550; ord. pres. 55 lb., fire pres. same.

Rates: meters, 25c. 1000 gal. max., 5c. min.

WEST DUNDEE, 1,380.

MUNICIPAL.

Springs & reservoir, 500,000 gal.; ½ mi. from center business section; pumps, 2-500,000 gal. single act. triplex driven by gasoline engine, 35-hp. Otto; meters, 200; serv. con. 353.

WEST HAMMOND, 6,000.

MUNICIPAL.

Sutp., J. H. Kasper.....Hammond

Lake Michigan; meters, 8; serv. con. 890; ord. pres. 60 to 70 lb.

Rares; flat, $12 year.

WESTERN SPRINGS, 905.

MUNICIPAL.

Supt., G. Key.....Western Springs

Well; ½ mi. from center distribution.

Boilers, two 100-hp. ea.; hand stoking; pumps, 2-1,440,000 gal. Blake; pumping to reservoir, 180,000 gal.

Av. daily cons. 100,000 gal.; serv. con. 325; ord. pres. 50 to 100 lb., fire pres. same.

WHEATON, 3,423.

MUNICIPAL.

Mayor, H. Ward Mills.....Wheaton
City Clerk, Lewis Ellsworth.....Wheaton
Supt., Grant M. Ellsworth..... "

Wells, two 10-in. 178 ft. deep; near center distribution; no purification.

Boiler, hor. 100-hp. 80 lb.; hand stoking; pumps, 1-648,000 gal. hor. duplex 1904, 1-892,800 gal. hor. American 1911 belted to gas engines, 65-hp. National 1911; pumping direct & to standpipe (1895) 144,000 gal.

Pipe, 18 mi. 4 to 10-in. c. i.; hyd. 200, hose con. 2½-in. Ludlow, R. D. W. & Eddy; valves, 80 r. h. opening Clow; meters, 900 National, Worth. & Thomson; av. daily cons. 250,000 gal.; serv. con. 930; ord. pres. 60 lb., fire pres. 50 to 75 lb.

Rates; meter, $1 quarter 5000 gal., 20c 1000 gal.

WHITE HALL, 3,000.

MUNICIPAL.

Impounding reservoir, 93,000,000 gal.

Pump, 1-400,000 gal. triplex Deming driven by gasoline engines, two 25-hp. I. H. C.; pumping to elev. tank, 80,000 gal. steel.

Pipe, 76-10 mi.; meters, 200; av. daily cons. 200,000 gal. 75%; serv. con.; ord. pres. 40 lb., fire pres. 60 lb.

Rates; meter, 25c. 1000 gal. max., 6c. min.

WILMETTE, 4,943.

Supplied from Evanston.

WINNETKA, 3,200.

MUNICIPAL.

Mgr. Pub. Properties,
F. E. Herdman.....Winnetka

Lake Michigan; chemical, hypochlorite of lime.

Boilers, 2 water-tube 200-hp. 100 lb. Kroeschell; mech. stoking; pumps, 1-2,000,-000 tandem comp. duplex, 1-1,300,000 gal. tandem comp. duplex, 1-960,000 gal. simple duplex; pumping to standpipe, 55,000 gal.

Pipe, 21 mi. 4 to 12-in. c. i.; hyd. 251; meters, 950; serv. con. 950; ord. pres. 45 to 64 lb.

Rates; meter, $1 quarter, 15c. 1000 gal.

WOOD RIVER, *100.

MUNICIPAL.

Comr., Geo., Geo. Dalton.....Wood River
" C. A. James..... " "

Wells; pumping direct; meters, 139 Pittsburgh & Worth.; ord. pres. 20 to 30 lb., fire pres. 75 to 80 lb.

Rates; meter, $1.50 quarter, 25c. 1000 gal. max., 20c. min.

WOODHULL, 692.

MUNICIPAL.

Comr., Henry Sickney.....Woodhull
" Charles Andreen..... "
Supt., A. B. Henderson..... "

Well, 10-in. 1394 ft. deep; reservoir, 100,000 gal.

Pumps, 1-1,800,000 gal., 1 triplex 432,000 gal.; elec. motors, 15 & 17½-hp. 220 v. 60 cys.; gasolene engine, 14-hp. Ohio; pumping to elevated tank, 97,000 gal. wood.

Hyd. 31, hose con. 2½-in. Ludlow; valves, 12 r. h. thd.; meter, 16 Buffalo; av. daily cons. 40,000 gal.; serv. con. 200; ord. pres. 43, fire pres. 60 lb.

WOODSTOCK, 4,635.

MUNICIPAL.

Supt., John Bolger.....Woodstock

Wells, three 1000 to 2000 ft. deep & impounding reservoir, 200,000 gal.

Boilers, 3 tubular 150-hp. 120 lb. Freeman 1902 & 1913; pumps, 1-750,000 gal. Tappan, 1-224,640 gal. Deming, 1-1,500,000 gal. Knowles 1904, 2-288,000 gal. Pittsburgh; air compressor, 2 L-D-G; elec. motors, two 10 & 25-hp. 220 v. Wagner; pumping to standpipe, 120,000 gal.

Pipe, 17 mi.; hyd. 142 Crane, Eddy, R. D. W. & Rensselaer; meters, 1000; av. daily cons. 475,000 gal.; serv. con. 1000; ord. pres. 65 to 75 lb., fire pres. 100 lb.

Rates; meter, $1.25 100 cu. ft., 15c. 10 cu. ft.

INDIANA

ALBANY, 1,289.
ALBANY WATER & LIGHT COMPANY.
Pres., Chas. W. Sherman....Boston, Mass.
Sec.-Treas. & Mgr.,
Leonard Metcalf..... "
Supt. & Ch. Engr., J. L. Tully. "
Boiler, 200-hp. Harvey; steam engine, 150-hp.

ALBION, 1,213.
MUNICIPAL LIGHT & WATERWORKS.
Pres. of Town Board, Dr. W. Carver..Albion
Mbr. of Board, Charles Callahan.... "
" " " Albert Black..... "
Treas., G. O. Russell..... "
City Clerk, Carl Hardenbrook..... "
Supt., A. Holderman..... "
Engr. P'g Sta., O. Singery..... "
Wells, 3 6-in. 90-ft. deep; ½ mi. from center business secion; no purification.
Boilers, 2 hor. 100-hp. 80 lb. Arbuckles Ryan 1895; hand stoking; pumps, 2-500,-000 gal. hor. comp. d. act. Worth. 1895.
Rates; meter, 25c. 1,000 gal. max., 12c. min.

ALEXANDRIA, 5,096.
MUNICIPAL.
Chm. Comrs., Enos Rutledge...Alexandria
Comr., J. J. Marley..... "
" D. A. Allman..... "
Supt., B. M. Madden..... "
City Clerk, R. H. Malone..... "
Wells, 9, 8 & 10-in. 250 ft. deep; near center of distribution; no purification.
Boilers, 2 tubular 80-hp. ea.; hand stoking; pumps, 2-1,440,000 gal.; pumping to standpipe (1893), steel.
Pipe, 10.8 mi. 4 to 12-in.; hyd. 95, hose con. 2½-in.; meters, 100; av. daily cons. 360,000 gal.; serv. con. 750; ord. pres. 5 to 50 lb., fire pres. 85 to 90 lb.
Rates: flat, $4 year, bath $2, closet $2; meters, 20c. 1000 gal. max., 6c. min.

ANDERSON, 22,476.
MUNICIPAL.
Supt., Henry Drach.....Anderson
Engr. P'g Sta., B. L. Zumwalt..... "
Boiler, 1,550-hp. Stirling; steam turbine, 2,455-hp. Allis-C.

ANGOLA, 2,610.
INDIANA UTILITIES CO. Supplies Waterloo and Lake James.
Pres., R. E. Nihan.....Angola
Sec. & Treas., H. L. Hamley,
10 So. La Salle St., Chicago, Ill.
Gen. Mgr., E. J. Condon.....Angola
Wells, 7 about 135 ft. deep; no purification.
Boilers 2 200-hp. ea. Sterling; pumps, 2 deep-well 140,000 gal. ea. American 1-2,000,000 gal. triplex Worth.; pumping to standpipe, 105,000 gal.
Pipes, 8 mi. c. i.; hyd. 70; valves, 6; meters, 15 National and Pittsburgh; av. daily cons. 560,000 gal.; serv. con. 678; ord. pres. 50 lb.

ARGOS, 1,088.
MUNICIPAL.
Pres. Council, F. P. Boggs.....Argos
Member, Henry A. Born..... "
" Chas. Linkdnhelt..... "
Town Clerk, Herschel M Tebay..... "
Supt., C. E. Vandorn..... "
Wells, 3 6-in. 40 to 120 ft. deep; near center of distribution; no purification.
Boilers, 2, 50-hp. ea. F. M.; hand stoking; pumps, 2-50,000 gal. ea. Worth.; air compressor, Ingersoll-Rand; pumping to reservoir, 45,000 gal.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 3-in.; valves, 5. r. h. thd.; meters, 3; av. daily cons. 50,000 gal.; serv. con. 167; ord. pres. 45 lb., fire pres. 90 lb.

ATTICA, 2,335.
MUNICIPAL.
Supt., Gilbert McDonald.....Attica
Engr. P'g. Sta., John Walsh..... "
Wells, along Wabash River, 6-in. & 10 140 ft. deep; no purification.
Boilers, 4 return tubular 150-hp. ea. Frost; hand stoking; pumps 2-600,000 gal. ea. Worth.; pumping direct and to reservoir, 500,000 gal.
Hyd. 68, hose con 2½-in. Eddy; valves, 54 r. & l. h. thd. Ludlow; meters, none; av. daily cons. 600,000 gal.; serv. con. 800; ord. pres. 75, fire pres. same.
Rates: flat, $4.50 year, bath $3 closet $3.

AUBURN, 3,919.
MUNICIPAL.
Supt., E. Wineland.....Auburn
Engr. P'g. Sta., H. C. Karle..... "
Wells, 10, 10-in. 238 ft. deep; ½ mi. from center distribution.
Boilers, 2 water-tube 350-hp. B. & W.; hand stoking; pumps, 2-1,000,000 L-D-G.; pumping direct.
Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 107, hose con. 2½-in. Rensselaer; valves, 73 r. h. thd.; meters, none; av. daily cons. 750,000 gal.; serv. con. 800; ord. pres. 40 to 60 lb.; fire pres. 40 to 100 lb.

AURORA, 4,410.
INDIANA PUBLIC SERVICE CO.
Pres. & Supt., J. S. Dales.....Aurora
V. Pres., D. A. Hanna..... "
Sec. & Treas., C. B. Hanna..... "
Cons. Engr., A. Hardgrave....Chicago, Ill.
Ohio River; settling basins 2-1,000,000 gal.; mechanical filters, 2-500,000 gal. ea. Jewell; chemicals, hypochlorite of lime and sulphate of iron.
Boilers, 2 hor. tubular 100-hp. ea.; hand stoking; pumps, 2-1,000,000 gal. ea. steam Platt, 2-1,000,000 gal. ea. Van Wie driven by elec. motor, 30 kw. 2200 v. 3 ph. 60 cys.

Westg.; pumping direct and to elev. tank, 1-50,000 gal. wood, and 1-280,000 gal., steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 87, hose con. 2½-in. Bourbon; valves, 72; meters, 162 various; av. daily cons. 350,000 gal.; serv. con. 686; ord. pres. 120 lb., fire pres. same.

AVILLA, 579.

MUNICIPAL.

Pres. Council, M. D. Stanley.....Avilla
Councilman, T. H. Pilgrim..... "
" J. M. Smark..... "
Supt. & Engr. P'g. Sta.,
F. W. Findley..... "

Wells, 2 6-in. 210 ft. deep; near center distribution.

Boilers, one tubular 50-hp.; hand stoking; pumps, 1-1,728,000 gal. American, 1-2,020,000 gal. Cook; pumping to elev. tank, 25,000 gal. wood.

Pipe, 2 mi. 4 to 6-in.; hyd. 15, hose con. 2½-in. Bourbon; valves, 5 r. h. thd. Bourbon; meters, none; av. daily cons. 12,000 gal.; serv. con. 118; ord. pres. 45 lb., fire pres. same.

Rates: flat $4 year.

BATESVILLE, 2,151.

BATESVILLE WATERWORKS CO.

Pres., John A. Hillenbrand.....Batesville
V. Pres., Harry Bland..... "
Sec., Treas. & Supt.,
A. W. Ronwebber..... "
Ch. Engr. P'g. Sta., Andy Benz.. "

Well, 18x24 ft. and reservoir, 1,000,000 gal.; ½ mi. from center distribution; chemicals, none.

Boiler, tubular 75-hp.; hand stoking; pumps, 2-1,000,000 gal. Deane and L-D-G.; gasoline engine, 5-hp. F. M.; elec. motor, 10-hp. 220 v. s. ph. 60 cys. Wagner; pumping direct for fires and to elev. tank (1903), 50,000 gal. steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 49, hose con. 2½-in. Bourbon; valves, 15 l. h. thd. Crane; meters, 51 Buffalo and Union; av. daily cons. 75.000 gal.; serv. con. 58; ord. pres. 35 to 40 lb., fire pres. 40 to 150 lb.

Rates: flat, $5 year, bath and closets $5; meters, $1.10 year, 30c. 1000 gal. max., 8.5c. min.

BEDFORD, 8,716.

MUNICIPAL.

Supt., J. W. Malott.....Bedford
Ch. Engr. P'g. Sta.,
John Rodenburg..... "

White River; 3½ mi. from center distribution; coagulating basin, 3,000,000 gal.; chemicals, hypochlorite of lime and sulphate of alumina.

Pumps, 3 De Laval, d. con. to elec. motors, 60, 100 & 200-hp. 3 ph. 60 cys. Westg.; pumping direct and to standpipe (1892), brick and iron.

Pipe, 18 mi. 4 to 12-in.; hyd. 144, hose con. 2½-in.; valves, 74 r. h. thd. Crane; meters, 18 various; av. daily cons. 1,000,000 gal.; serv. con 1200; ord. pres. 40 lb., fire pres. 100 lb.

BLOOMFIELD, 2,069.

HOME LIGHT & WATER CO.

Pres. & Supt., M. E. Dugger....Bloomfield
Sec.-Treas. & Mgr.,
J. C. Gilliland..... "
Engr. P'g Sta., J. W. Ausman... "

Boiler, 450-hp. Gem; steam engine, 258-hp.

BLOOMINGTON, 8,838.

MUNICIPAL.

City Treas. & Supt., Gus Schreiber.Boonville
Supt., David Helfrish.....Bloomington

Pump, 1-3,000,000 gal. hor. comp.L-D-G.

BLUFFTON, 4,987.

MUNICIPAL.

Ch. Engr., E. R. Baker.....Bluffton
Supt. & Engr. P'g. Sta., C. W. Clark "
Chemist, H. E. Barnard..... "

Wells, 6, 8-in. 350 ft. deep; ½ mi. from center distribution; settling basin, 25 ft. in diam.

Boilers, 3 water-tube 350-hp. ea. Sterling; mechanical stokers, Jones; pump, 1-1,000,-0000 gal. McGowan, 1-720,000 gal. centrifugal driven by elec. motor, 2300 v. 3 ph. 60 cys.; pumping to reservoir, 2,000,000 gal.

Pipe, 6 mi. 4 to 12-in.; hyd. 110, hose con. 2½-in various; meters, 750 Pittsburgh; av. daily cons. 275,000 gal.; serv. con. 750; ord. pres. 40 to 60 lb., fire pres. 80 to 100 lb.

BOONVILLE, 3,934.

MUNICIPAL.

Impounding reservoirs, 2; ¾ & 1½ mi. from center business sectilon; no purification.

Pumping to standpipe (1896) & elev. tank (1896) 150,000 gal.

Pipe, 6½ mi. 4 to 10-in. c. i.; hyd. 52, hose con. 2½-in.; valves, 35; meter, 10 Buffalo; serv. con. 800.

Rates; flat, $8 year, bath $3, closet $4.

BOURBON, 1,163.

UNION WATER, LIGHT & POWER CO.

Pres., E. E. Beyers.....Bourbon
Sec., C. A. Davis..... "
Supt., E. Kessler..... "

Artesian wells, 2, 150 ft. deep; no purification.

Boilers, 2 tubular 80-hp. Erie; pumps, 2 Goulds; pumping to standpipe (1902), steel

Hyd. 28, hose con. 2½-in. Bourbon, av. daily cons. 30,000; ord. pres 45 lb., fire pres. 100 lb.

Rates: flat, $1.00 mo.; meter, 25c. 1000 gal.

BRAZIL,

MUNICIPAL.

Chmn. Comrs., Frank Crawford.....Brazil
Comr., William Treager..... "
" John Row..... "
Supt., Fred. C. Wilson..... "

Engr. P'g Sta., C. W. Miller.....Brazil
Wells, 9 & 10-in. 100 to 120 ft. deep; one mi. from center business section.

Boilers, 2 return tubular 150-hp. 125 lb. Chander-Taylor 1914, one return tubular 150-hp. 110 lb. Vanes 1900; hand stoking; pumps, 1-1,000,000 gal. duplex d. act. Deane 1895; air compressors, 2 Ingersoll-Rand 1904; pumping direct.

Pipe, 14 mi. 4 to 16-in. c. i.; hyd. 135, hose con. 2½-in. Bourbon, R. D. W., Ludlow, Deane, Chapman & Galvin; valves, 75 l. h. opening Crane & Bourbon; meters, 875 National, Thomson & Pittsburgh; av. daily cons. 505,000 gal. 63%; serv. con. 1,000; ord. pres. 35 to 75 lb., fire pres. 100 to 140 lb.

Rates; meter, $1 quarter 500 cu. ft., 20c. 100 cu. ft. max., 5c. min.

BREMEN, 2,008.

MUNICIPAL WATER & LIGHT PLANT.

Pres. Comrs., Charles Sauer.....Bremen
City Clerk, Frank Knoblock..... "
Supt., Edward R. Hans..... "
Engr. P'g Sta., Ben Pfefferle..... "

Wells, 6 4 to 8-in. 68 to 70 ft. deep; ½ mi. from center business section; no purification.

Boilers, 2 water-tube 150-hp. ea. 125 lb. Lyons 1912; pumps, 1-750,000 gal. hor. comp. d. act. Worth. 1898, 1-500,000 gal. hor. simple d. act. Hewes 1892; pumping to standpipe (1892) 1,000 bbl.

Pipe, 4 mi. 6-in. c. i.; hyd. 35, hose con. 3-in.; valves, 15 r. & l. h. opening Crane; meters, 210 Buffalo; serv. con. 400; ord. pres. 50 to 65 lbs., fire pres. 65 to 100 lb.

BROOKVILLE, 2,169.

MUNICIPAL.

Pres Trustee, William Burkhart. Brookville
Trustee & Pur. Agt.,
Clarence K. Moore..... "
Trustee, Abe Bossert..... "
" Joseph Hannan..... "
" Clinton E. Grist..... "
Supt., P. T. McCammon..... "
Ch. Engr. P'g. Sta.,
Edward C. Burkhart, Sr..... "

White Water River; 1 mi. from center distribution; no purification.

Boilers, 2 hor. tubular 75 & 100-hp. L. D. G. and Brownell; hand stoking; pumps, 1-650,000 gal. L. D. G., 1-1,000,000 gal McGowan; pumping direct and to reservoir, 365,000 gal.

BROWNSTOWN, 1,492.

BROWNSTOWN WATER & LIGHT CO.

Pres., W. W. Ireland.....Brownstown
V. Pres., Sec., Treas. & Mgr.,
Cont. Agt. & Supt.,
D. D. Vance..... "
Engr. P'g Sta., Ralph Rich.... "

Boiler, 160-hp. Ft. Wayne; steam engine, 150-hp. Clark.

BUTLER, 1,818.

MUNICIPAL.

Supt. & Engr. P'g. Sta.....Butler

Artesian wells, 8, 6-in. 90 to 140 ft. deep; near center distribution.

Pumps, 3-936,000 gal. triplex Deming driven by elec. motors, 85-hp. 220 v. 3 ph. 60 cys. Lincoln; pumping direct.

Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 53, hose con. 2½-in. Bourbon; valves, 24 r. g. thd. Bourbon; meters, 200 Neptune, Thompson, Union and Gamon; ord. pres. 35 to 60 lb., fire pres. 60 to 100 lb.

CAMBRIDGE CITY, 2,231.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Supt., B. W. Gentry.....Cambridge City
Engr. P'g Sta.,
Charles Eiklor..... " "

Boiler, 300-hp. C. & C.; steam engine, 375-hp. C. & C.

CANNELTON, 2,130.

MUNICIPAL.

Supt., W. P. Martin.....Cannelton

Wells, 2, 100 ft. deep; reservoir, 500,000 gal.; no purification.

Pumps, 1-504,000 gal. centrifugal De Laval, 2 deep-well Cook driven by elec. motors; pumping direct.

Pipe, 3.85 mi. 4 to 10-in. mostly wood; hyd. 45, hose con. 2½-in.; valves, 10; meters, 43 Buffalo; av. daily cons. 135,000 gal.; serv. con. 225; ord. pres. 85 lb.

Rates: flat, $6 year, bath $3, closet $3; meter, min. charge $6 year, 20c. 1000 gal. max., 7c. min.

CHESTERTON, 1,400.

THE HOME WATER CO.

Supt., H. C. Nichols.....Chesterton

CHURUBUSCO, 870.

CHURUBUSCO WATER & LIGHT CO.

Gen. Mgr., Miss Josie Kingdon. Churubusco
Engr. P'g Sta., E. R. Keen.... "

Boiler, 230-hp. Bass; steam engine, 50-hp. Ball.

CLINTON, 6,229.

MUNICIPAL, CLINTON WATER WORKS COMPANY.

Pres., Roy Slater.....Clinton
Sec., Wm. Wood..... "
Treas. & Supt., Wm. M. Hamilton. "
C. Engr. P'g. Sta.,
Leslie Galloway..... "

Wells, 13, 8-in. 70 ft. deep; no purification

Boilers, 2 tubular 100-hp. ea. Atlas; hand stoking; pumps, 3-3,000,000 gal. Platt & Deane; pumping direct.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 106, hose con. 2½-in. Bourbon; valves, 52 r. h. thd. Bourbon; meters, 60 various; av. daily cons. 426,000 gal.; serv. con. 1038; ord. pres. 40 to 100 lb., fire pres. 100 lb.

Rates: flat, $5.40 year, bath $3, closet $3; meter, 30c. 1000 gal. max., 15c. min.

COLUMBIA CITY, 3,448.

MUNICIPAL. Columbia City Water & Light Dept.

Mayor, F. L. Mayers.....Columbia City
City Treas., Edward Binder. " "
City Clerk, E. E. Erdman... " "
Supt., F. T. Schuetz..... " "
Engr. P'g Sta., O. E. Growcock..... " "

Wells, 5 3 to 10-in. 287 to 534 ft. deep; no purification.

Boilers, 2 vert. water-tube 200-hp. 135 lb. Wickes 1910; hand stoking; pumps, 2-1,000,000 gal. ea. hor. simple & comp. d. act. Worth. 1895; driven by steam engines, one 250-hp. Bass 1898, one 150-hp. Harrisburg; elec. generators, 2 Westg.; pumping direct.

Hyd. 103, hose con. 2½-in. Bourbon; valves, l. h. opening Clow; meters, 81 Thomson; av. daily cons. 550,000 gal.; serv. con. 838; ord. pres. 60 lb., fire pres. 100 lb.

Rates; flat, min. charge $4 year; bath $2, closet $2; meter, $4 year, 30c. 1,000 gal. max., 6c. min.

COLUMBUS, 8,813.

MUNICIPAL.

Chmn. Comrs., W. W. Adams...Columbus
Comr., John Schaefer..... "
" Frank Lindsmith..... "
Engr. P'g Sta., J. C. Rush..... "

East Fork White River; settling & coagulating basins, 2-800,000 gal.; mech. filters, 4,000,000 gal. Roberts; chemical, sulphate of alumina.

Boilers, 4 return tubular 150-hp. 100 lb. Brownell 1907; hand stoking; pumps, 1-5,000,000 gal. hor. comp. c. & f. wh. Holly 1902, 1-3,000,000 gal. hor. comp. c. & f. wh. Holly 1902, 1-3,000,000 gal. hor. comp. c. & f. wh. Buffalo 1885, 2-4,000,000 gal. hor. De Laval 1913, driven by elec. motor, 40-hp. 220 v. 3 ph. 60 cys. Crocker-Wheeler 1913; steam engine, 240-hp. Buckeye 1905; steam turbine, one hor. 40-hp. De Laval 1913; elec. generator, 150-hp. g. e.; pumping direct.

Pipe, 20 mi.; hyd. 63, hose con. 3-in.

CONNERSVILLE, 7,738.

MUNICIPAL.

Mayor, Philip Braun.....Connersville
Comr., J. J. Peters..... "
" J. A. Chrismer..... "
Supt., J. C. Massey..... "
Engr. P'g Sta., S. Jarrell..... "

Impounding reservoir, 1,500,000 gal. & wells, 6 10 & 12-in. 75 ft. deep; ½ mi. from center business section; no purification.

Boilers, 2 return tubular 150-hp. 115 lb. McIlwain & Spiegel 1906, one boiler-tube 150-hp. Brownell 1910; hand stoking; pumps, 2-1,200,000 gal. d. act. McGowan 1898 & 1906; air compressor, L-D-G. 1914 driven by steam turbines, 2 G. E.

Hyd. 200; meters, 200 Thomson; av. daily cons. 885,500 gal. 90%; serv. con. 1,400; ord. pres. 60 lb., fire pres. 85 to 95 lb.

Rates; flat, $3 year, bath $3, closet $3; meter, 50c. mo. 420 cu. ft., 12c. 100 cu. ft. max., 3¾c. min.

CONVERSE, 1,164.

MUNICIPAL.

Pres. Water Board, J. W. Eward..Converse
Supt., F. E. Riggs..... "
Engr. P'g Sta., Jacob Harvy..... "

Well, 8-in. 280-ft. deep; near center business section; no purification.

Boiler, tubular 50-hp. 30 to 80 lb. Arbuckle-Ryan; hand stoking; pumps, one steam Deane 1894; pumping to reservoir, 30,000 gal. & elev. tank, (1894) 30,000 gal. wood.

Pipe, 2½ mi. 4 to 6-in. c. i.; hyd. 30, hose con. 2½-in. valves, 10 l. h. opening Crane; meters, 2 Thomson serv .con. 250; ord. pres. 30 lb., fire pres. 40 to 80 lb.

CORYDON, 1,703.

INTERSTATE PUBLIC SERVICE COMPANY. Office, 504 Board of Trade Bldg., Indianapolis, Ind. For officers see Franklin. (Controlled by Middle West Utilities Co., 112 WestAdams St., Chicago, Ill.)

Supt. & Engr. P'g. Sta.,
Frank R. Wright.....Corydon

Big Indian Creek; near center distribution; no purification.

Boilers, 2 tubular 160-hp. Vogt and Hegewold; hand stoking; pumps, 4; pumping to reservoir. 40-x75 ft.

Av. daily cons. 20,000 gal.; serv. con. 65; ord. pres. 52 lb., fire pres. same.

COVINGTON, 2,035.

MUNICIPAL LIGHT & WATER PLANT. Office, West End & Jefferson Sts.

Treas., Wm. E. Bitsaw.....Covington
City Engr., J. G. B. Short..... "

Boiler, 300-hp. Brownell; steam engine, 150-hp. Ide.

CRAWFORDSVILLE, 9,371.

GENERAL SERVICE CO.

Pres. & Gen. Mgr.,
S. T. Murdock.....La Fayette
V. Pres., C. M. Murdock..... "
Sec. & Treas., A. E. Scheithe... "
Mgr., H. J. Roach..... "
Cons. Engr., W. I. Batten..... "
Supt. & Ch. Engr. P'g. Sta.,
John McCarthy.....Crawfordsville

Wells, 8, 6 & 8-in. 60 to 160 ft. deep; ½ mi. from center distribution; reservoir, 500,000 gal.

Boilers, 3 tubular 125-hp.; hand stoking pumps, 6-5,000,000 gal. Worth.

Pipe, 18 mi. 4 to 12-in.; hyd. 200, hose con. 2½-in.; valves, l. h. thd.; meters, 850 Buffalo, Neptune and Worth.; av. daily cons. 800,000 gal.; serv. con. 2400; ord. pres. 40 to 45 lb., fire pres. 90 to 100 lb.

Rates: flat, $6 year; meter, 30c. 1000 gal. max., 12½c. min.

CROWN POINT, 2,526.
MUNICIPAL.
Comr. & Supt.,
Cyrus Hayden.....Crown Point
Comr., C. W. Allman..... " "
" J. H. Lehman..... " "
Wells, 3, 8-in. 100 ft. deep; near center distribution; no purification.
Steam from Interstate Public Service Co.; pumps 2-150,000 gal. Platt; pumping to standpipe (1895), iron.
Pipe, 8 mi. 4 to 12-in. c. i. & wood; hyd. 60, hose con. 120 Eddy & Rensselaer; valves, 20 r. & l. h. thd. Western; meters, one National av. daily cons. 200,000 gal.; serv. con. 500; ord. pres. 30 to 35 lb., fire pres. 60 to 89 lb.

DANVILLE, 1,640.
MUNICIPAL.
Supt., Wilmer L. Homan.....Danville

DECATUR, 4,471.
MUNICIPAL WATER & LIGHT PLANT.
Comr., James Hurst.....Decatur
" Peter Kirsh..... "
" Fred Linn..... "
Supt., M. J. Mylott..... "
Engr. P'g Sta., A. C. Foss..... "
Chemist, H. E. Barnard..... "
Impounding reservoirs, 2-464,000 gal. & wells, 9 6 & 8-in. 250 to 400 ft. deep; no purification.
Boilers, 3 water-tube one 300 & 2 400-hp. 125 lb. McNaul 1907 & Ft. Wayne 1902; pumps, 2-1,500,000 gal. hor. comp. d. act. Worth. 1895; air compressor, 600 cu. ft. Ingersoll-Rand 1895; pumping direct.
Pipe 14 mi. 6 to 16-in. c. i.; hyd. 103, hose con. 2½-in. Bourbon; valves, 174 l. h. opening Ludlow; meters, 690 National, Pittsburgh & Thomson; av. daily cons. 150,000 gal.; serv. con. 700; ord. pres. 35 to 40 bl., fire pres. 60 to 100 lb.
Rates; meter, $1.25 quarter 6,000 gal., 20c. 1,000 gal. max., 10c. min.

DELPHI, 2,161.
MUNICIPAL.
Comr., A. L. Gurley.....Delphi
" T. W. Calvin..... "
" S. L. Woodruff..... "
Supt., Frank E. Bibbins..... "
Pur. Agt., Talmar R. Arnold..... "
Springs, 3; reservoirs, 2-950,000 gal.; no purification.
Boilers, 2 fire-tube H. S. M.; pumpt 2-1,000,000 gal. ea. duplex Deane; pumping to standpipe, 14,000 gal.
Pipe, 6.3 mi. c. i.; hyd. 58 Eddy; meters, 300 Gamon; serv. con. 600; ord. pres. 45 to 100 lb.

DUNKIRK, 3,031.
Supplied by Muncie Electric Light & Power Co.
Mgr. Dunkirk Service, B. F. Black. Dunkirk
Impounding reservoirs, 2 & wells, 5 148-ft. deep; ½-mi. from center business section.
Boilers, 2.

EAST CHICAGO, 19,098.
EAST CHICAGO & INDIANA HARBOR WATER CO.
Mgr., W. W. Berry.....East Chicago
Gen. Supt., W. L. Watson.... " "

EDINBURG, 2,040.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Chmn. Bd., A. W. Pruitt.....Edinburg
V. Pres., John W. Graham..... "
Sec., W. G. Thompson..... "
Supt., E. R. Mutz..... "
Boiler, 250-hp. Spring; steam engine, 220-hp. C. & T.

ELKHART, 19,282.
ELKHART WATER COMPANY.
Pres., James H. State.....Elkhart
Sec., Elliott Crull..... "
Wells, 4, 40 ft. deep.
Boilers, 3 water-tube 200-hp. ea. Sterling; pumps, 2-6,000,000 gal. triple exp. F. M., 1-5,000,000 gal. duplex F. M., 2-2,000,000 gal. duplex Platt.
Pipe, 51.5 mi. 6 to 24-in. c. i.; hyd. 353 Chapman and R. D. W.; meters, 3706 Neptune; av. daily cons. 1,325,000 gal.; ord. pres. 50 to 100 lb.
Rates: flat, $4 year, bath $2.50; closet $2.50; meter, min. charge 50c. mo.; 12c. 1000 gal. max., 8c. min.

ELWOOD, 11,028.
ELWOOD WATER CO.
Supt., W. G. Curtes.....Elwood

ENGLISH, 583.
ENGLISH WATERWORKS CO.
Pres. & Gen. Mgr., Jno. H. Luckett. English
Springs; ½ to ¾ mi. from center business section; no purification.
Gravity distribution from reservoir; pipe, 6 mi. 2 to 6-in. c. i. & gavl. i.; hyd. 14 2½-in.; valves, 6; meters, none; serv. con. 150; ord. pres. 55 lb., fire pres. same.
Rates; flat $5 year, bath $4.

EVANSVILLE, 69,647.
MUNICIPAL.
Pres. Trustees, A. W. Ellerbush. Evansville
Trustee, A. E. Hopkins..... "
" G. A. Trimble..... "
Sec., W. A. Bosse..... "
Gen. Mgr., W. H. Durbin..... "
Cons. Engr., John W. Alvord,
Hartford Bldg., Chicago, Ill.
Supt., Charles Streithoff.....Evansville
Engr. P'g Sta., Wm. Koch..... "
Chemist, Sam Scott..... "
Ohio River; 1.5 mi. from center business section; coagulating basins, 3-2,500,000 gal.; mech. filters, 12,000,000 gal. filtering area 4,416 sq. ft. Norwood; chemicals, hopochlorite of lime, sulphate of iron & lime.
Boilers, one water-tube 308-hp. 150 lb. B. & W. 1913, 3 water-tube 260-hp. ea. B. & W. 1914; mech stokers, Roney; pumps, 2-

10,000,000 gal. ea. vert. tri. exp. c. & f. wh. Holly 1900, 4-15,000,000 gal. hor. centrifugal De Laval 1912 geared to steam turbines; steam engine, 50-hp. hor. slide valve Skinner 1903; steam turbines, 30-hp. Sturtevant 1912, 2 hor. 225-hp. ea. De Laval 1912, 2 hor. 575-hp. ea. De Laval 1912; elec. generators, 2 30 & 20-k. v. a. ea. Western; pumping direct.

Pipe, 118.5 mi. 2 to 30-in. c. & w. i.; hyd. 853, hose con. 2½ & 5-in. various; valves, 1,540 r. h. opening mostly Rensselaer; meters, 271 various; av. daily cons. 9,315,000 gal.; serv. con. 11,115; ord. pres. 40 to 55 lb., fire pres. 75 to 100 lb.

Rates; flat; $4 year, bath $2, closet $4; meter, min. charge $2 year, 10c. 1,000 gal. max., 4.5c. min.

FAIRMOUNT, 2,506.

MUNICIPAL.

Pres. Comrs., Wm. Z. Payne...Fairmount
Comr., James F. Hill..... "
" John W. Smith..... "
" Curtis W. Smith..... "
Supt., Earl Morris..... "
" Curtis W. Smith..... "
Supt., Earl Morris..... "

Wells, 7 4 to 8-in. 37 to 370 ft. deep.

Pumps, 1-288,000 gal., 1-720,000 gal. driven by elec. motors, 220 v. 3 ph. 60 cys. G. E.; pumping direct; pipe, 10 mi. 4 to 10-in.; hyd. 41, hose con. 3-in. Bourbon; meters, 3 Hersey; av. daily cons. 245,000 gal.; serv. con. 650; ord. pres. 45, fire pres. 65 lb.

Rates: flat, $5.55 year, bath $2.77, closet $4.16; meter, 15c. 1000 gal. max., 6c. min.

FORT BRANCH, 1,182.

FORT BRANCH WATER, LIGHT, POWER & HEAT CO.

Pres., J. E. Toops.....Fort Branch
V. Pres., W. L. Walters..... " "
Sec., Treas. & Gen. Mgr.,
S. R. Lockwood..... " "

Artesian wells, 9 8-in. 18 to 24 ft. deep; ½ mi. from center business section; no purification.

Pumps, 1-387,850 gal. d. act. National 1912; elec. motor, 20-hp. 440 v. 3 ph. 60 cys. F. M. 1915.

Gravity distribution from reservoir, 60,000 gal.

Pipe, 4 mi. 2 to 6-in. c. i.; hyd. 27, hose con. 2½-in. Bourbon; valves, 19 l. h. opening Bourbon; meters 20 National & Pittsburgh; av. daily cons. 30,000 gal., serv. con. 143; ord. pres. 40 to 65 lb.

Rates; flat, $7, bath $2 closet $3; meter, 30c. 1,000 gal. max., 7c. min.

FORT WAYNE, 63,933.

MUNICIPAL. Office, City Bldg., East Berry & Barr Sts.

Mayor, W. J. Hosey.....Fort Wayne
Supt., G. B. Borsck..... " "
Controller, W. C. Boade, Jr.... " "

Artesian wells, 43 6 to 10-in. 150 to 270 ft. deep along bank of St. Mary's River.

Boilers, 3 hor. combination fire & water-tube 300-hp. ea. 155 lb. Lyons 1908, one hor. combination fire & water-tube 425-hp. 155 lb. Lyons 1910, 4 hor. return tubular 90-hp. ea. 80 lb. Ft. Wayne 1898 & 1900; pumps, 1-4,000,000 gal. vert. trip. exp. c. & f. wh. Holly 1890, 1-6,000,000 gal. hor. comp. c. & f. wh. Holly 1902, 1-3,000,000 gal. inclined simple c. & f. wh. Holly 1902, 1-3,000,000 gal. inclined simple c. & f. wh. Holly 1880, 1-2,000,000 gal. vert. centrifugal Worth. driven by elec. motor, 85-hp 2,080 v. 3 ph. 60 cys.; elec. energy from municipal light plant; air lifts & air compressor, one; pumping direct & to reservoir, 5,000,000 gal.

Pipe, 111 mi. 4 to 24-in. c. i.; hyd. 813 mostly R. D. W., Michigan & Bourbon; valves, 936; meters, about 40%; av. daily cons. 5,100,000 gal.; ord. pres. 23 to 48 lb.

FRANKFORT, 8,634.

THE FRANKFORT WATER WORKS COMPANY.

Pres., D. A. Coulter.....Frankfort
Sec. & Supt., J. B. Marvin..... "

Artesian wells; near center distribution; reservoirs, 2-1,200,000 gal.; no purification.

Boilers, 4 return tubular 70-hp. ea. Brownell; hand stoking; pumps, 1-4,000,000 gal. Gaskill, 1-3,000,000 gal. comp. Canton; pumping direct.

Pipe, 29.3 mi. 4 to 20-in.; hyd. 270, hose con. 2½-in. Chapman; valves, 200 r. h. opening Chapman; meters, 600 various; av. daily cons. 993,000 gal.; serv. con. 2,800; rod. pres. 35 to 50 lb., fire pres. 80 to 111 lb.

FRANKLIN, 4,502.

FRANKLIN WATER, LIGHT & POWER CO. (Controlled by Middle West Utilities Co., 112 W. Adams St., Chicago, Ill.)

Pres., Chester P. Wilson.....Indianapolis
V. Pres., J. S. Dales..... "
Sec. & Treas., Harry E. Guthrie "
Mgr., George B. Thomas.....Columbus
Cont. Agt., C. H. Elder.....Indianapolis
Pur. Agt., P. H. Dallow..... "
Supt., S. Reno..... "

Boiler, 400-hp. Lyons; steam engines, 500-hp. Buckeye.

FRANKTON, 936.

MUNICIPAL. Frankton Water & Light Plant.

Pres. Comrs., H. Q. Hicks.....Frankton
Comr., J. M. Farlow..... "
" J. T. Adams..... "
Town Clerk, Raymond King..... "
Supt. & Engr. P'g Sta.,
W. L. Davis..... "

Well, 20 ft. in diam. 16 ft. deep; near center business section; no purification.

Boilers, 2 fire-tube 80-hp. 80 lb. Wheeler 1900; hand stoking; pumps, 2 comp. d. act. Platt 1900; pumping direct.

Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 30, hose con. 2½-in.; serv. con. 150; ord. pres. 60 to 80 lb., fire pres. 80 to 100 lb.

Rates; flat, $4 year, bath $2.

GARRETT, 4,149.

MUNICIPAL.

Mayor, Dr. J. A. Clevenger.....Garrett
Chm. Comrs., Charles C. Lindoerfer "
City Engr., J. H. W. Krontz..... "
Supt., G. C. Scott..... "
Engr. P'g. Sta., David Carter..... "

Wells, 8, 8 & 10-in. 128 to 297 ft. deep; near center distribution; no purification.

Boilers, 2 tubular 200-hp. ea. Bass; hand stoking; pumps, 2-1,000,000 gal. L-D-G.; pumping direct.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 3-in. Bourbon; valves, 47 r. g. thd. Bourbon; meters, 40 Buffalo; av. daily cons. 700,000 gal.; serv. con. 850; ord. pres. 50 lb., fire pres. 75 to 100 lb.

Rates: flat, $4 year, bath $2 closet $2.50.

GARY, 16,808.

GARY HEAT, LIGHT & WATER CO. (Controlled by U. S. Steel Corporation.)

Pres. & Treas., L. W. McNanee.....Gary
V. Pres. & Mgr., Leonard Fitzgerald... "
Sec., W. J. Nildock..... "
Cont. Agt., George M. Dunkle..... "
Pur. Agt., J. P. Hoot.....Chicago, Ill.
Supt., F. W. Van Sise.....Gary

Buy energy from Illinois Steel Co.

GAS CITY, 3,224.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Chmn. Comrs., B. H. Saunders...Gas City
Comr., Frank Ockerman..... " "
" O. Gordon..... " "
" Frank Knapp, Jr..... " "
Supt., T. S. McKee..... " "
Engr. P'g Sta., Wm. Adams..... " "

Impounding reservoir, 720,000 gal. & wells, 3 5 to 10-in. 300 ft. deep.

Boilers, 3 hor. return tubular 150-hp. 125 lb. Brownell 1914 & 1915; hand stoking; pumps, 2-1,026,800 gal. hor. comp. d. act. Worth. 1897, 1-312,108 gal. vert. Westg. 1912 geared to elec. motor; air compressor, 500 cu. ft. Chicago Pneumatic 1909; steam engine, 300-hp. Bates-Corliss 1908; pumping direct.

Pipe, 10 mi. 4 to 12-in.; hyd. 65, hose con. 2½-in.; valves, 8 r. h. opening; av. daily cons. 260,000 gal.; serv. con. 600; ord. pres. 30 to 60 lb., fire pres. 80 to 130 lb.

GOODLAND, 1,105.

MUNICIPAL.

City Clerk, Roy M. Shepard.....Goodland

GOSHEN, 8,514.

MUNICIPAL.

Mayor, S. S. Spohn.....Goshen
Chmn. Comrs., John Grite..... "
Treas., Orrin Watts..... "
Clerk, Wm. A. Brooks..... "

GREENCASTLE, 3,790.

GREENCASTLE WATERWORKS CO.

Pres., Frank Donner.....Greencastle
Treas., O. L. Reeves.....
Cons. Engr., A. W. MacCallum, 26 S. 3rd. St., Phila., Pa.

Bit Walnut Creek; 2 mi. from center of distribution; no purification.

Boilers, 2 water-tube 200-hp. Heine; hand stoking; pumps, 3-5,000,000 Deane and Epping Carpenter; pumping to standpipe (1888), iron.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 100 hose con. 2½-in. Ludlow; valves, 60 r. h. thd. Ludlow; meters, 1001 Neptune, Hersey, National and Pittsburgh; av. daily cons. 496,000 gal.; serv. con. 1001; ord. pres. 65 to 70 lb., fire pres. same.

Rates: all meter, 40c. 1000 gal. max., 10c. min.

GREENFIELD, 4,448.

MUNICIPAL.

Mayor, J. Q. Johnson.....Greenfield
City Clerk, O. O. Beaver..... "
Supt., William Briney..... "

Artesian wells, 8, 4-in. 150 ft. deep; near center of distribution; no purification.

Boilers, 2 hor. 50-hp. ea. Hughes; hand stoking; pumps, 2-1,000,000 gal. ea. Hughes; pumping direct and to reservoir, 52,000 gal.

Pipe, 8.5 mi. 4 to 12-in. c. i.; hyd. 88, hose con. 2½-in. Bourbon; valves, 50; meters, 570 mostly Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 1116; ord. pres. 45 lb.; fire pres. 85 lb.

Rates: flat, $4 year; meter, 15c. 1000 gal. max., 10c. min.

GREENSBURG, 5,420.

THE GREENSBURG WATER CO.

Pres., David A. Myers.....Greensburg
Sec., J. B. Kitchin..... "
Mgr. & Supt., Harry Emmert.. "

Wells, 30, 70 to 259 ft. deep; no purification.

Boilers, 2, 80-hp.; pumps, 2-1,500,000 gal. Blake; pumping to reservoir, 2-500,000 gal.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 165 Ludlow; valves, 50 various; meters, 75 various; av. daily cons. 500,000 gal.; serv. con. 1200; ord. pres. 40 to 100 lb.

HAMMOND, 20,925.

MUNICIPAL.

Supt., E. N. Jewitt.....Hammond

HARTFORD CITY, 6,187.

MUNICIPAL.

Supt., Isaac Waters.....Hartford City
City Engr., William Harley.. " "

HUNTINGBURG, 2,464.

MUNICIPAL.

Supt., C. Neihaus.....Huntingburg

HUNTINGTON, 10,272.

MUNICIPAL.

Chm. Comrs. Fred. H. Bowers..Huntington
Comr., John P. Kenower..... "
" Dr. D. Yingling..... "
Supt., J. F. Fulton..... "

Cons. Engr., Chas. Broreman. Huntington
Ch. Engr. P'g. Sta.,
Joseph Emmons..... "
Wells, 14, 8-in. 100 ft. deep; 1½ mi. from center of distribution.
Boilers, 2 water-tube 250-hp. McNall; hand stoking; pumps, 2-2,500,000 gal. L-D-G; air compressor, L-D-G; pumping direct and to standpipe, iron.
Pipe, c. i.; hyd. 270, hose con. 2½-in. Bourbon; valves, mostly r. h. thd. Crane; meters, 2100 National; av. daily cons. 1,200,000 gal.; serv. con. 2100; ord. pres. 60 lb., fire pres. same.
Rates: all meters, 20c. 100 cu. ft. max., 5c. min.

INDIANAPOLIS, 233,650.

INDIANAPOLIS WATER CO.
Pres. & Mgr., C. L. Kirk.....Indianapolis
V. Pres. & Ch. Engr.,
C. H. Hurd..... "
Treas., E. C. Leible..... "
Sec., F. C. Jordan..... "
White River & wells, 38 10-in. 365-ft. deep; 9 mi. from center distribution; settling basins, 45,000,000 gal.; slow sand filters, 3,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.
Boilers, 14 water-tube 250-hp. B. & W.; mechanical stoking, chain grate; pumps, 25-135,000,000 gal. Rarig, Snow, Holly, Dayton & Westg.; driven by elec. motors, 15 kw. 440 v. 3 ph. 60 cys. Westg.; pumping direct.
Pipe, 370 mi. 4 to 30-in. c. i.; hyd. 3,200, hose con. 2½ & 4½-in. R. D. W. & Darling; valves, 3,400 r. h. thd. Eddy & R. D. W.; meters, 3,800 various; av. daily cons. 22,-670,000 gal.; serv. con. 41,560; ord. pres. 60 to 100 lb., fire pres. 90 to 125 lb.
Rates; meter, 18c. 1,000 gal. max., 4.5c. min.

JASPER, 2,196.

MUNICIPAL.
Pres., Comrs., Jos. A. Eckert.....Jasper
Comr, Geo. C. Wagner..... "
" Adam Rickard..... "
" Fred Blessinger..... "
" John F. Schneider..... "
Supt., Jos. P. Kunkel..... "
Patoka River; ¼ mi. from center of distribution.
Boilers, 400-hp. Atlas & Bornwell; pumps, 2-600,000 gal. Worth.; pumping direct and to reservoir, 1,300,000 gal.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. R. D. W. and Rensselaer; valves, 54 r. h. thd.; meters, 315 Buffalo, Neptune and Pittsburgh; av. daily cons. 250,000 gal.; serv. con. 420; ord. pres. 40 to 67 lb., fire pres. 90 lb.

JEFFERSONVILLE, 10,412.

JEFFERSONVILLE WATER, LIGHT & POWER CO.
Pres., James B. Goodrich.....Jeffersonville
Secy. & Mgr., H. W. Strauss.. "
Wells, 27, 45 ft. deep; no purification.
Boilers, 2, 125-hp. ea. Atlas and Vogt; pumps, 2-2,000,000 & 1,500,000 comp. duplex Deane; pumping to reservoir, 500,000 gal. and standpipe 175,000.
Pipe, 15 mi. 6 to 14-in. c. i.; hyd. 150 Ludlow; valves, 40; meters, 140 mostly National; av. daily cons. 1,000,000 gal. serv. con. 1320; ord. pres. 40 to 75 lb.

KENDALLVILLE, 4,981.

MUNICIPAL LIGHT & WATER PLANT.
Mayor, James Graves.....Kendallville
Supt., W. Shauch..... "
Engrs. P'g Sta.,
S. E. & Chas. Dickerson.... "
Boiler, 400-hp. Sterling, water-tube 150-hp.; steam engines, 305-hp.

KNIGHTSTOWN, 2,008.

MUNICIPAL.
Supt., N. Hiatt.....Knightstown
Impounding reservoirs, 2 500,000 gal. & wells, 2 10-in. 65 to 130 ft. deep; small settling basin.
Boilers, 2 water-tube 175-hp. 150 lb. Sterling; pumps, 2; air compressor, one Ingersoll-Rand 1913; steam engine, 225-hp. Hamilton; steam turbine, hor. 125-hp. G. E. 1913; elec. generators, 2 63 kva. Allis-C.; pumping direct & to standpipe, 125,000 gal.
Pipe, 4 to 10-in. c. i.; hyd. 64, hose con. 2½-in.; valves, r. h. opening; meters, 60 various; serv. con. 500; ord. pres. 65 to 100 lb., fire pres. 80 to 100 lb.
Rates; flat, $3 year, bath $2, closet $2; meter, min. charge $4.20 25,000 gal., 5c. 1,000 gal.

KNOX, 1,644.

KNOX WATER & LIGHT CO.
Pres., J. L. Moormon.....Knox
Treas., B. L. Favorite..... "
Supt., Alvin S. Good..... "
Wells, 20, 2-in. 50 ft. deep; near center distribution.
Pumps, driven by gasoline engine, 20-hp. F. M.; pumping direct and to standpipe (1909) brick; elev. tank, 40,000 gal., iron.
Pipe, 3½ mi. 4 to 12-in. c. i.; hyd. 44, hose con. 2½-in.; valves, 14; meters, 85 Worth. and Pittsburgh; av. daily cons. 35,000 gal.; serv. con. 115; ord. pres. 25 to 47 lb., fire pres. same.
Rates: meters, 20c. 1000 gal. max., 15c. min.

KOKOMO, 17,010.

KOKOMO WATERWORKS COMPANY. (Controlled by American Waterworks and Electric Company, 50 Broad St., New York, N. Y.
Pres., Q. Walling.....Kokomo
V. Pres. & Supt., E. C. Elliott.... "
Sec. & Treas., R. W. Williams..... "
River for emergency supply & wells, 9 3 to 8-in. 150 to 500 ft. deep.
Boilers, 3 hor. tubular 260-hp. Ford, Donnelly & Lynch; hand stoking; pumps, 1-2,500,000 gal. Worth., 1-4,000,000 gal.

Worth., 1-2,400,000 gal. Hall; pumping direct & to reservoir, 750,000 gal.

Pipe, 33 mi. 4 to 12-in. c. i.; hyd. 409; meters, 375 various; av. daily cons. 2,030,430 gal.; serv. con. 4,000; ord. pres. 50 to 60 lb., fire pres. 100 to 124 lb.

LAFAYETTE, 20,081.

MUNICIPAL.

Pres. Bd. Pub. Wks., C. Q. Erisman.....Lafayette
Member, R. L. Sackett..... "
" J. J. Schattz..... "
Supt., Melvin W. Miller..... "

Wells, 12, 12-in. 100 ft. deep; 1½ mi. from center distribution; no purification.

Boilers, 4 tubular 250-hp. ea. Sterling, 4 tubular 125-hp. ea. Sterling; hand and mechanical stoking, Roney; pumps, 4-16,000,000 gal. Worth. and L-D-G; pumping direct and to reservoir, 4,200,000 gal.

Pipe, 57 mi. 4 to 30-in. hyd. 350 R. D. W. and Rensselaer; valves, 460 Rennselaer and Ludlow; meters, 550 Union and National; av. daily cons. 4,500,000 gal.; serv. con. 5000; ord. pres. 40 to 99 lb.

Rates: flat, $5 year, bath $3.50, closet $2.50; meters, 20c. 1000 gal. max., 6c. min.

LA GRANGE, 1,772.

MUNICIPAL.

Supt., C. A. McCally.....La Grange

Wells, 9, 6-in. 100 to 135 ft. deep; no purification.

Boilers, 2 tubular 30-hp. ea. Old.; hand stoking; pumps, 2 steam; pumping direct.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 4-in.; meters, 30 Neptune; av. daily cons. 200,000 gal.; serv. con. 375; ord. pres. 45 to 60 lb., fire pres. 75 to 100 lb.

LA PORTE, 10,525.

MUNICIPAL.

Supt., J. H. Harding.....La Porte

Clear Lake; wells, 2; reservoir, 1,000,000 gal.; no purification.

Boilers, 2, 100-hp. ea., one tubular 150-hp.; pumps, 1-5,000,000 gal. comp. Nordberg, 1-5,000,000 gal. comp. Allis C., 1-2,000,000 gal. comp. duplex Worth.; pumping direct.

Boilers, 2, 100-hp. ea., 1 tubular 150-hp.; pumps, 1-5,000,000 gal. comp. Nordberg, 1-5,000,000 gal. comp. Allis C., 1-2,000,000 gal. comp. duplex. Worth.; pumping direct.

Pipe, 37 mi. 4 to 18-in. c. i.; hyd. 282; valves, 253; meters, 77; av. daily cons. 2,000,000 gal.; ord. pres. 45 lb.

Rates: meter, 10c. 1000 gal. max., 2c. min.

LEAVENWORTH, 690.

LEAVENWORTH WATER CO.

Pres., W. B. Allen.....Leavenworth
Supt., S. E. Grimes..... "

Spring near Ohio River; ¼ mi. from center distribution; no purification.

Boiler, one fire tube; hand stoking; pumps, 2; elec. motors, 2-hp. 110 v. d. c. F. M.; pumping to reservoir.

Hyd. 20, hose con. 3½ & 4-in.; meters, none; av. daily cons. 3500 gal.; serv. con. 125; fire pres. 47 to 55 lb.

Rates: flat, $2.50 year.

LEBANON, 5,474.

MUNICIPAL.

Supt., W. C. Ridgway.....Lebanon

Wells, 5, 30 to 145 ft. deep; reservoir, 500,000 gal.

Boilers, 2 hor. tubular 80-hp. Springfield; pumps, 2-750,000 gal. L-D-G; pumping to standpipe, 100,000 gal.

Pipe, 17 mi. 4 to 12-in. c. i.; hyd. 145; meters, 464 Pittsburgh and Neptune; av. daily cons. 450,000 gal.; serv. con. 1380; ord. pres. 50 lb.

Rates: flat, $1.35 quarter; meters, 25c. 1000 gal.

LIBERTY, 1,338.

MUNICIPAL.

Comr., C. C. Beard.....Liberty
" G. M. Clark..... "
" E. E. Kain..... "
Town Clerk, R. M. Duvall..... "

Wells and springs; reservoir, 350,000 gal.; no purification.

Boilers, 2 tubular 40-hp. ea. McGowan; pumps 2-1,000,000 gal. ea. comp. duplex McGowan; pumping to standpipe, 75,000 gal.

Pipe, 3.8 mi. 4 to 8-in.; hyd. 50, hose con. 2½-in.; meters, 10 Thomson; av. daily cons. 90,000 gal.; serv. con. 288; ord. pres. 45 lb.

Rates: flat, $5 year.

LINTON, 5,906.

LINTON WATER CO.

Pres., D. J. Terhune.....Linton
V. Pres., F. M. Dugger..... "
Sec. & Treas., David D. Terhune... "
Supt., E. Dixon..... "

Wells, 6, 8-in. 140 ft. deep; 3 mi. from center distribution; reservoir, 285,000 gal.

Boilers, 1, 150-hp., and 2, 80-hp. ea. hor. tubular Phoenix; pumps, 2-1,000,000 gal. F. M.; pumping direct.

Pipe, 4.2 mi. 4 to 12-in.; hyd. 79, hose con. 2½-in. Bourbon; valves, 67; meters, 117 National, Pittsburgh, Buffalo and Gamon; av. daily cons. 500,000 gal.; serv. con. 1300; ord. pres. 60 lb.

Rates: flat, $6 year; meters, 35c. 1000 gal. max.

LOGANSPORT, 19,050.

MUNICIPAL.

Supt., H. W. Klinck.....Logansport

Eel River; mechanical filters, 8,000,000 gal. Roberts.

Boilers, 2, 600-hp. Caldwell; pumps, 1-3,000,000 gal. Holly, 1-3,000,000 gal. L-D-G, 1-3,000,000 F. M., 1-6,000,000 gal. Allic C.; pumping direct.

Pipe, 3 mi. 2 to 20-in. c. i.; hyd. 219, hose con. 4 & 6-in. Ludlow, Bourbon, Roe Stephens; valves, 400 Ludlow, Roe Stephens

Bourbon; meters, none; av. daily cons. 500,000 gal.; serv. con. 4000; ord. pres. 60 lb.

LOOGOOTEE, 2,154.

LOOGOOTEE WATERWORKS. (Privately owned.)
Pres., Geo. P. Harrot.....Loogootee
V. Pres., J. M. Van Huy..... "
Sec. & Treas., C. C. Van Huy... "

Wells, 3, 10-in. 250 ft. deep; near center distribution.

Boilers, 50-hp. Alton; hand stoking; pump. 2-300,000 gal.; pumping to elev. tank (1914), 85,000 gal. steel.

Pipe, 4 to 12-in. c. i.; hyd. 43, hose con. 2½-in.; meters, 125 Lambert; av. daily cons. 50,000 gal.; serv. con. 125; ord. pres. 55 to 60 lb., fire pres. same.

Rates: meter, min. charge $1.50c. 1000 gal. max.

MADISON, 6,934.

MUNICIPAL.
Supt., Andrew Jacobs.....Madison
City Engr., J. B. Jay..... "

MARION, 19,359.

MARION BRANCH, National Home for Disabled Volunteer Soldiers. Office, 932-934 New York Life Bldg., New York, N. Y.
Governor, Col. Geo. W. Steele.....Marion

Wells, 15, 35 ft. deep.

Pumps, centrifugal; air compressor; pump ing to standpipe.

MARTINSVILLE, 4,529.

MUNICIPAL.
Supt., Mr. Lewis.....Martinsville
City Engr., C. Goss..... "

Pumps, 1-2,000,000 gal. hor. comp. L-D-G.

MICHIGAN CITY, 19,027.

MUNICIPAL.
Supt. & Engr. P'g. Sta.,
A. W. Frehse.....Michigan City

Lake Michigan; one mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 3 tubular 240-hp. Johnstone; hand stoking; pumps, 3-10,000,000 gal. Holly; pumping direct.

Pipe, 30 mi. 4 to 30-in. c. i.; hyd.238, hose con. 2½-in. various; valves, 500 l. h. thd. Eddy and Ludlow; meters, 20 Hersey; av. daily cons. 10,000,000 gal.; serv. con. 3800; ord. pres. 30 to 40 lb., fire pres. 70 to 80 lb.

Rates: flat, $6 year, bath $2, closets $2; meter, 6c. 1000 gal.

MIDDLETOWN, 1,174.

MUNICIPAL.
Supt. Water Board, A. S. Miller. Middletown
City Clerk & Treas.,
F. A. Wisehart..... "
Des. Engr., Anthony Heppel.....Muncie
Engr. P'g Sta., L. A. Neff.....Middletown

Wells, 2 6-in. 90 ft deep; near center business section.

Boilers, 2 75-hp. 80 lb. Canfield 1896; hand stoking; pumps, vert. simple d. act. McGowan; pumping direct & to elev. tanks, 2 (1896) 160,000 gal.

Pipe 4 mi. 8-in. c. i.; hyd. 40, hose con. 2½-in.; valves, 18 r. h. opening; av. daily cons. 8,640; serv. con. 150; ord. pres. 45 lb. fire pres. 80 lb.

Rates; flat, $5 year, bath $3, closet $3.

MISHAWAKA, 11,886.

MUNICIPAL.
Mayor, R. W. Gaylor.....Mishawaka
Members Bd. Pub. Wks.,
A. D. Warner..... "
W. H. Tupper..... "
T. B. McDonough..... "
Supt., A. R. Klein..... "
Ch. Engr. P'g. Sta., T. D. Smith "

St. Joe River and wells, 15, 10-in. 90 to 300 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 5 hor. water-tube 75, 150 & 2, 15-hp ea. B. & W.; hand stoking; pumps, 1-1,500,000 gal., 1-4,000,000 gal. Platt, 2-1,500,000 L-D-G; pumping direct.

MONTPELIER, 3,786.

MONTPELIER UTITILTIES Co.
Pres., Guy R. Brackin.....Montpelier
V. Pres., E. J. Sidney..... "
Sec., Treas. & Supt.,
John P. Boyd..... "

Boilers, 2 water-tube 150-hp ea. Heine; hand stoking; pumps, 2-720,000 gal. Platt and L-D-G; pumping direct.

Hyd. 60, hose con 2½-in. Bourbon and Darling; meters, 155 National, Hersey and Gamon; av. daily cons. 31,200 gal.; serv. con. 217; ord. pres. 40 to 45 lb., fire pres. 80 to 100 lb.

Rates: flat, $1 per mo.; meter, 20c.1000 gal. max., 10c. min.

MOORESVILLE, Z,608.

MOORESVILLE UTILITIES Co. Office, 301 Peoples' Gas Bldg., Chicago, Ill.
C. S. Woolfolk.....Chicago
Treas., I. W. Durfee..... "
Mgr., F. P. Smith.....Mooresville

MOUNT VERNON, 5,563.

MOUNT VERNON WATER WORKS Co. (Controlled by American Water Works and Electric Company, 50 Broad St., New York, N. Y.)
Pres., G. E. Hoffmaster...New York, N. Y.
V. Pres., J. C. Adams.... " " " "
Sec., F. R. Berry..... " " " "
Treas., B. C. Hovis..... " " " "
Supt., L. R .Agin.....Mount Vernon
Engr. P'g Sta., D. H. Rankin " "

Ohio River; mechanical filters, 2,000,000 gal.

Boilers, 2 return tubular 160-hp. Keck-Gonnerman; hand stoking; pumps, 1-2,000,-000 gal. Worth., 1-2,000,000 gal. Epping Carpenter, 1-1,250,000 gal. Worth., 1-2,000,-000 gal. Worth.; pumping to elev. tank, 200,000 gal. steel.

Pipe, 7.8 mi.,4 to 12-in. c. i.; hyd. 100, hose con. 2 & 2½-in.; meters, 153 various; av. daily cons. 700,000 gal.; serv. con. 1,173; ord. pres. 70 to 80 lb., fire pres. 100 to 115 lb.

MUNCIE, 24,005.

MUNCIE WATER WORKS CO. (Controlled by American Water Works and Electric Company. 50 Broad St., New York, N. Y.)
Pres., G. E. Hoffmaster.....Muncie
V. Pres., J. C. Adams..... "
Sec., F. R. Berry..... "
Treas., B. C. Hovis..... "
Supt., Quince Walling..... "

White River, Buck Creek & artesian wells, 18 6 to 10-in. 135 to 250 ft. deep; Buck Creek is 3 mi from center distribution; coagulating basin; mech. filters, 4,814,000 gal. chemical, sulphate of alumina.

Boilers, 7 hor. tubular 110 & 400-hp. Oil City, Brownell & Munroe; hand stoking; pumps, 2-1,500,000 gal. ea. comp. Worth. 1-2,500,000 gal. L-D-G., 1-4,500,000 gal. tri. exp. Worth., 1-3,000,000 gal. tri exp. Worth., 1-1,250,000 gal. Blake, 1-1,500,000 gal. steam Buffalo; pumping direct & to reservoir, 1,000,000 gal.

Pipe, 42.5 mi. 4 to 30-in. c. i.; hyd. 344; meters, 952 various; av.daily cons. 2,872,880 gal.; serv. con. 4,005; ord. pres. 45 to 60 lb., fire pres. 105 to 120 lb.

NAPPANEE, 2,260.

MUNICIPAL.
Supt., R. W. James.....Nappanee

Wells, 2, 12-in. 150 ft. deep; near center distribution; no purification.

Boilers, 2, 150-hp. ea.; hand stoking; pumps, 1-144,000 gal. Deming.

Av. daily cons. 259,000 gal.; serv. con. 600; ord. pres. 45 lb.; fire pres. same.

Rates: meter, 1½c. 100 gal.

NEW ALBANY, 20,639.

NEW ALBANY WATERWORKS.
Supt., J. O. Endris.....New Albany

Ohio River; one mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 2 water-tube 250-hp. Sterling; hand stoking; pumps, 2-2,000,000 B. J., 2-3,000,000 B. J.; elec. motor, 238 kw. 4000 v. 3 ph. 60 cys. Stanley; elec. energy from United Gas & Elec. Co.; pumping to reservoir, 4-25,000,000 gal.

Pipe, 30 mi. 4 to 16-in. c. i.; hyd. 219, hose con. 2½-in R. D. W., Bourbon and Ludlow; valves, r. h. thd. Crane, Chapman and Ludlow; meters, 365; av. daily cons. 1,800,000 gal.; serv. con. 4032; ord. pres. 80 lb., fire pres. same.

NEW CASTLE, 9,446.

MUNICIPAL.
Chmn. Comrs., H. C. Elliott...New Castle
Comr., J. G. Myler..... " "
" V. Wimmer..... " "
Sec., K. C. Ballard..... " "
Supt., W. L. Younce..... " "

Wells, 13, 4 to 8-in. 90 ft. deep; one mi. from center distribution.

Boilers, 2 water-tube 250-hp. Heine; hand stoking; pumps, 2-4,500,000 gal. McGowan; air compressors, 4 Ingersoll-Rand, Norwalk and Westg.; pumping to reservoir, 150,000 gal.

Pipe, 17 mi. 4 to 12-in. c. i.; hyd. 136; meters, 220 Hersey, Thompson and Neptune; av. daily cons. 1,100,000 gal.; serv. con. 2200; ord. pres. 80 to 90 lb., fire pres. 100 to 150 lb.

Rates: flat, $5 year, bath, $2.50, closet $1.50; meter, 15c. 1000 gal. max., 6c. min.

NEW HAVEN, 1,038.

MUNICIPAL.
Supt., H. H. Grubb.....New Haven

Wells, 2, 8-in. 300 ft. deep; 1½ mi. from center distribution; no purification.

Pumps, 2-576,000 gal. Platt driven by elec. motor 7½ & 35-hp. 3 ph. 60 cys. Ft. Wayne; elec. energy from Ft. Wayne; pumping direct and to elevated tank.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 18, hose con. 2½-in.; meters, 1 Pittsburgh; av. daily cons. 3000 gal.; serv. con. 140; ord. pres. 25 to 40 lb., fire pres. 60 to 100 lb.

NOBLESVILLE, 5,073.

NOBLESVILLE WATER & LIGHT CO.
Supt., James B. Chom.....Noblesville

NORTH MANCHESTER, 2,426.

MUNICIPAL.
Supt., A. G. Ebbinghous...No. Manchester
Engr. P'g Sta., J. Dunbar... " "

Impounding reservoirs, 2-200,000 gal. & wells, 25 4 to 6-in. 90 to 112 ft. deep; no purification.

Boilers, 2 120-hp.; hand stoking; pumps, 5 horizontal, pumping to reservoirs, 2-200,000 gal. & standpipe (1894), 165,000 gal.

Pipe, 6 mi. 4 to 10-in. c. i.; hyd. 60, hose con. 2-in.; av. daily cons. 100,000 gal.; serv. con. 400.

Rates; 50c. quarter, 10c. 1,000 gal. max., 4.5c. min.

NORTH VERNON, 2,915.

MUNICIPAL LIGHT & WATER PLANT.
Supt., A. B. Berkshire.....North Vernon
Treas., G. White..... " "

Boiler, 450-hp. B. & W.; steam engine, 500-hp. Quincy.

OAKLAND, 2,370.

MUNICIPAL.
Pres. Comrs. Andrew Gonder.....Oakland
Comr., B. Johnson..... "
" Dr. Selby..... "
Supt. & Engr. P'g. Sta.,
Harry C. Lowenstein..... "

Wells, 3, 8-in. 200 ft. deep; near edge of pond.

Pumps, 3-50,000 gal. Goulds belted to gas engine, one 10-hp. & 2 8-hp. International; pumping direct and to reservoir, 320,000 gal.

Hyd. 40, hose con. 3-in. Ludlow; meters, 225 Hersey and Pittsburgh; av. daily cons. 55,000 gal.; serv. con. 225; ord. pres. 55 to 105 lb., fire pres. same.

OXFORD, 1,010.
MUNICIPAL LIGHT & WATER PLANT.
Supt., E. P. Hurt.....Oxford
Engr., P'g Sta., E. Mart..... "
Boiler, 250-hp. Atlas; steam engines, 125-hp. Atlas.

PAOLI, 1,278.
MUNICIPAL.
Pres. Bd. Trustees, E. S. Broxton.....Paoli
Trustee, W. W. Lingle..... "
" S. F. Teoford..... "
Clerk & Treas., A. J. Rhodes..... "
Supt. & Engr. P'g Sta.,
Edward Holliday..... "
Cons. Engr., A. A. Gasaway..... "
Impounding reservoir on Lick Creek; ¼ mi. from center business section; no purification.
Boilers, one 60-hp. 1910, one 80-hp. 1905; hand stoking; pumps, one hor. comp. d. act.; steam engines, 2 60 & 80-hp.; elec. motor; pumping to reservoir.
Pipe, 3 mi. 4-in. iron; hyd. 22, hose con. 2½-in. Cincinnati; meters, none.
Rates; flat, bath $3, closet $3.

PELL CITY, 3,369.
MUNICIPAL WATER & LIGHT PLANT.
Mgr. & Supt., L. S. Lehman.....Pell City
Pur. Agt., Theodore Kiefer..... " "
Engr. P'g Sta., Boyd Howard.... " "
Boiler, 550-hp. Atlas; steam engine, 300-hp. Atlas.

PERU, 10,910.
MUNICIPAL.
Chmn. Comrs., C. J. Ripple.....Peru
Comr., W. T. Hanson..... "
" G. C. Miller..... "
" Leroy Stagg..... "
Mgr., Arthur C. Herren..... "
Wells near Wabash River, 17 8 & 10-in. 400 ft. deep; ½ mi. from center distribution; no purification.
Boilers, 1000-hp. Scotch marine; pumps, 4-7,000,000 gal. steam and centrifugal Worth.; elec. motors, one 60-hp. 2200 v. 3 ph. 60 cys. Westg., 1, 75-hp. 220 v. 3 ph. 60 cys. G. E.; air compressors, 2 comp. Ingersoll-Rand; pumping direct and to reservoir, 1,200,000 gal.
Pipe, 26 mi. 4 to 12-in. c. i.; hyd. 300, hose con. 2½-in. R. D. W.; valves, 500 r. & l. h. thd. various; meters, 64 Neptune, National, Gamon and Hersey; av. daily cons. 1,500,000 gal.; serv. con. 3300; ord. pres. 42 lb., fire pres. 120 lb.
Rates: flat, $5 year, bath $3, closets $1.50; meters, 20c. 1000 gal. max., 5c. min.

PETERSBURG, 2,170.
MUNICIPAL.
Supt., Dennis Gleason.....Petersburg
City Engr., Horace Thomas.... "

PIERCETON, 817.
MUNICIPAL.
Vil. Pres., Dr. C. E. Leedy.....Pierceton
Town Clerk, J. R. Hover.....Pierceton
Supt., C. F. Short..... "
Well, 8-in. 200 ft. deep; ½ mi. from center distribution; no purification.
Boilers, 2, 100-hp. Bass; hand stoking; pumping direct and to elev. tank 1500 gal. Worth.
Hyd. 23, hose con. 2½-in.; meters, mostly Hersey; av. daily cons. 2000 gal.; ord. pres. 40 to 80 lb., fire pres. same.

PLAINFIELD, 1,303.
MUNICIPAL.
Supt., W. L. Holman.....Plainfield

PLYMOUTH, 3,839.
MUNICIPAL.
Supt., A. R. Underwood.....Plymouth
Wells, 8 2 to 8-in. 50 to 200 ft. deep; near center business section.
Pumps, 2 steam Holly 1888 driven by elec. motors, 2; purchase energy from local electric light plant; pumping direct & to elev. tank (1910).
Pipe, 9 mi. 4 to 10-in. c. i.; hyd. 76, hose con. 2½-in. Holly & R. D. W.; valves, 68 r. & l. h. opening; meters, 650 Pittsburgh; serv. con. 650; ord. pres. 70 lb., fire pres. 80 to 120 lb.
Rates; meter, 15c. 1.000 gal.

PORT FULTON, 1,060.
SUPPLIED BY JEFFERSONVILLE WATER LIGHT & POWER CO. See Jeffersonville.
Sec.-Treas. & Supt., E. V. Menefee. Rising Sun

PORTLAND, 5,130.
MUNICIPAL.
Mayor, Dr. C. A. Pattock.....Portland
City Engr., O. O. Clayton..... "
Mgr. & Supt., Geo. Nicholson.... "
Engr. P'g. Sta., John White..... "
Wells, 7, 8-in. 200 ft. deep.
Boilers, 850-hp. Ames & Bass; hand stoking; pumps, 2-1,250,000 gal. Blake; pumping direct.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 126, hose con. 2-in. Roe Stephens; valves, 80 hand opening; av. daily cons. 2,000,000 gal., serv. con. 600; ord. pres. 40 to 55 lb., fire pres. 70 yo 89 lb.
Rates: flat, $4 year, bath $2.50, closets $3; meters, 25c. 1000 gal., max., 7c. min.

PRINCETON, 6,448.
PRINCETON WATER & LIGHTING CO.
Pres., Thomas R. Paxton .....Princeton
Sec. & Treas., Stewart T. Fisher.. "
Supt., H. E. Tayler..... "
Ch. Engr. P'g. Sta.,
Fred. Merriman..... "
Patoka River; 3 mi. from center distribution; settling basin, 98,600 gal.
Boilers, 2; hand stoking; pump, 1-750,000 gal. L-D-G, 1-200,000 gal. L-D-G., 1-2,500,000 gal. L-D-G.; pumping to standpipe, (1894), iron.
Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 86, hose con. 2½-in.; meters, 50; av. daily cons.

1,000,000 gal.; serv. con. 1897; ord. pres. 25 to 45 lb., fire pres. 60 to 80 lb.

Rates: meters, 30c. 1000 gal. max., 11c. min.

RENSSELAER, 2,393.

MUNICIPAL.

Supt., C. S. Chamberlin.....Rensselaer

Deep wells, near center distribution.

Boilers, 3 tubular 100-hp.. Erie, Chandler & Taylor; hand stoking; pumps, 1-720,000 gal. centrifugal. American, 2-720,000 gal. ea. duplex Platt; elec. motors, 30 kw. 2300 v. 3 ph. 60 cys. G. E.; pumping direct and to elev. tank, 100,000 gal., iron.

Hyd. 50, hose con. 2½-in. Rensselaer; valves, r. h. thd.; meters, 15 various; serv. con. 400; ord. pres. 60 lb., fire pres. same.

RICHMOND, 22,324.

THE RICHMOND CITY WATERWORKS. (Privately owned.)

Pres., W. J. Hutton.....Richmond
V. Pres., C. W. Elmer..... "
Sec. ,E. G. Hibberd..... "
Treas. & Supt., Howard A. Dill.. "
Consltg. Engrs.,
Alvord & Burdick.....Chicago, Ill.

Infiltration galleries; 3 to 4 mi. from center distribution; no purification.

Boilers, 3 hor. tubular 125-hp. Brownell; hand stoking; pump, 1-4,000,000 gal. Holly, 1-6,000,000 gal. Holly, 1-6,000,000 gal. Epping-Carpenter; pumping direct and to reservoir, 10,000,000 gal.

Pipe, 48 mi. 4 to 30-in. c. i.; hyd. 335, hose con. 2½-in. R. D. W.; valves, 440 r. & l. h. thd. Ludlow; meters, 3388 mostly Thompson; av. daily cons. 2,818,000 gal.; serv. con. 4846; ord. pres. 45 to 110 lb.,fire pres. 110 to 175 lb.

Rates: flat, $6 year, bath $2.50, closet $3; meters, 20c. 1000 gal. max., 5¾c. min.

RISING SUN, 1,152.

RISING SUN WATER & LIGHT COMPANY.

Pres., Geo. A. Harrop.....South Bend
V. Pres., J. F. Cole..... " "
Engr. P'g. Sta., Wm. Shepard.. " "

Wells, 2 8-in. 100 ft. deep; ¼-mi. from center business section.

Boilers, 2 150-hp. 150 lb. Lyons 1913; hand stoking; pumps, 2-200,000 gal. vert. simple Cook 1913; 1-720,000 gla. duplex American.

ROCHESTER, 3,364.

MUNICIPAL.

City Engr., H. O. Wallace.....Rochester
Supt., A. McCarter..... "

Lake; ½ mi. from center distribution; no purification.

Boilers, 2 30-hp.; hand stoking; pumps, 2; pumping to standpipe (1894), steel.

Hyd. 80, hose con. 3-in.; ord. pres. 62 lb.

ROCKPORT, 2,736.

ROCKPORT WATERWORKS CO.

Pres., E. L. Kennedy.....Rockport
V. Pres., A. M. Huffman..... "
Sec., Treas., Mgr. & Cont. Agt.,
A. H. Kennedy.....Rockport
Engr. P'g Sta., Charles Carter..... "

Boiler, 300-hp. Brownell; steam engine, 300-hp. Corliss Ball.

ROCKVILLE, 1,943.

MUNICIPAL.

Supt., B. H. Freeland.....Rockville

Wells, 2, 8-in. 32 ft. deep; 3 mi. from center distribution; reservoir, 26,000 gal.

Boilers, 2 hor. tubular 60-hp. ea. Chandler & Taylor; hand stoking; pumps, 2-21,600 gal ea. duplex Worth.; pumping to elev. tank, 25,000 gal. wood.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 53, hose con. 2½-in. Bourbon; meters, 300 National and Pittsburgh; av. daily cons. 27,000 gal.; serv. con. 300; ord. pres. 40 to 46 lb., fire pres. 70 to 90 lb.

Rates: meters, 30c. 1000 gal. max., 8c. min.

RUSHVILLE, 4,925.

MUNICIPAL.

Mgr., A. T. Mahin.....Rushville

Wells, 14, 8 & 12-in. 70 to 208 ft, deep; reservoir, 500,000 gal.; no purification.

Boilers, 3 water-tube 300-hp. Heine; mechanical stokers, Green; pumps, 2-1,500,000 gal. Worth.; elec. motors, 45 kw. 220 v. 3 ph. 60 cys. G. E.; air compressors, 2 Weber; pumping direct.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 121, hose con. 3-in. Bourbon; valves, 112 l. h. thd. Bourbon; meters, 600 Pittsburgh; av. daily cons. 480,000 gal.; serv. con. 1046; ord. pres. 40 to 50 lb., fire pres. 90 to 100 lb.

SALEM, 2,283.

MUNICIPAL.

Supt., George Nurkels.....Salem
Consltg. Engr., John M. Henderson.. "

Springs; 3 & 5 mi. from center distribution

Boilers, 40-hp. Atlas; pumps, 1-576,000 gal. Deane, 1-846,000 gal.; gasoline engine, 20-hp. F. M.; pumping to reservoir, 400,000 gal.

Pipe, 14 mi. 4 to 12-in.; hyd. 80, hose con. 2¼-in.; av. daily cons. 350,000 gal.; serv. con. 700; ord. pres. 40 lb., fire pres. same.

SEYMOUR, 6,306.

SEYMOUR WATER CO.

Supt., W. S. Peters.....Seymour

River; 2 mi. from center distribution; mechanical filters, 1,000,000 gal.

Boiler, 3 hor. 250-hp. Atlas; pumps, 3; pumping direct and to reservoir (1889), iron.

Valves, 72; meters, 75; av. daily cons. 1,000,000 gal.; serv. con. 1000; ord. pres. 40 to 60 lb., fire pres. 90 to 110 lb.

SHELBYVILLE, 9,500.

INTERSTATE PUBLIC SERVICE CO. Office, 508 Bd. of Trade Bldg., Indianapolis. For officers see Franklin. (Controlled by Middle West Utilities Co., 112 W. Adams St., Chicago, Ill.)

Supt., Roy Campbell.....Shelbyville
Wells, 7, 38-ft. deep; 1¼ mi. from center distribution.
Boilers, 4 water-tube 250-hp. Sterling; hand stoking; pumps, 1-2,500,000 gal. L-D-G; 1-3,000,000 gal. Epping-Carpenter; elec. motors, 35-hp. 3 ph. 60 cys. F. M.
Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 150, hose con. 2½-in. Eddy and Rensselaer; valves, 133 R. D. W.; meters, 93 Neptune; av. daily cons. 1,150,000 gal.; serv. con 1725; ord. pres.15 to 60 lb., fire pres. 100 to 120 lb.

SHERIDAN, 2,000.
SHERIDAN WATER, LIGHT & HEAT CO.
Sec. & Des. Engr., C. E. Layton...Sheridan
Supt., Chas. Latimer..... "
Wells, 2, 8-in. & 10-ft. in diam. 173 & 30 ft. deep; reservoir, 33,000 gal.
Boilers, 2 hor. tubular 300-hp. Chandler & Taylor; hand stoking; pumps, 3-720,000 gal. Deane; elec. motors, 10 kw. 220 v. 3 ph. 60 cys. Westg.; pumping direct.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 53, hose con. 2½-in. Kupferle; valves, 10; av. daily cons. 75,000 gal.; serv. con. 150; ord. pres. 38 to 40 lb., fire pres. 50 to 70 lb.

SHIRLEY, 1,519.
MUNICIPAL.
Supt., Vinton Mogul.....Shirley

SOUTH BEND, 56,684.
MUNICIPAL.
Pres. Bd. Pub. Wks.,
E. M. Morris.....South Bend
Member, A. H. Rice..... " "
" J. B. Webber..... " "
Supt., John W. Toyne..... " "
Artesian wells; near center distribution; no purification.
Boilers, 2 water-tube, 300-hp. ea. Freeman, 2 water-tube 150-hp. ea. B. & W.; mechanical stokers, Jones; pumps, 2-5,000,000 gal. Allis C., 1-6,000,000 Deane, 1-3,000,000 gal Deane, 2-2,500,000 gal. Platt; elec. motors, 200 kw. 440 v. 3 ph. 60 cys. F. M.; electric energy from Indiana & Michigan Electric Co.; pumping to standpipe (1873), iron.
Pipe, 116 mi. 4 to 30-in. c. i.; hyd. 875, hose con. 2½-in. R. D. W.; valves, 1040 r. h. thd. Rensselaer; meters, 4000 various; av. daily cons. 5,000,000 gal.; serv. con. 12,000; ord. pres. 70 to 85 lb., fire pres. 90 to 97 lb.
Gates: flat, $4.50 year, bath $3, closets $2; meter, min. charge 50c. mo., 12c. 1000 gal. max., 8c. min.

SOUTH WHITLEY, 1,176.
MUNICIPAL.
Trustee, M. C. Gerard.....South Whitley
" A. D. Havens..... " "
" A. L. Obenchain.... " "
Town Treas., F. E. Fox..... " "
Wells, 4 6 & 10-in. 50 ft. deep; near center distribution; no purification.
Boilers, 2 tubular 180-hp.; hand stoking; pump, 2 steam Worth.; pumping direct
Hyd. 46, hose con. 2½-in.; meters, 12 National; av. daily cons. 25,000 gal.; serv. con. 210; ord. pres. 60 lb., fire pres. 80 lb.
Rates: flat, min. $3 year; meters, 6c. 1000 gal.

SPENCER, 2,150.
SPENCER LIGHT, POWER, HEAT & WATER CO. Office, 231 Fourth National Bank Bldg., Cincinnati, O.
Pres., Reid Hight.....Spencer
V. Pres., A. W. Harper.....Martinsville
Sec., Treas. & Supt., J. C. Malloy..Spencer
Pur. Agt. & Mgrs.,
Reliance Engrg. Co.....Cincinnati, O.
Wells, 2, 4-in. 100 ft. deep; near center distribution; reservoir, 100,000 gal.
Boilers, 2 hor. return tubular 250-hp. Atlas; hand stoking; pumps, 2-1,000,000 gal. F. M.; air compressor, Ingersoll-Rand; pumping direct.
Pipe, 5¼ mi. 4 to 12-in.; hyd. 32 Bourbon; av. daily cons. 250,000 gal.; ord. pres. 50 lb.; fire pres. 125 lb.
Rates: meter, 15c. 1000 gal.

SULLIVAN, 4,115.
MUNICIPAL.
Supt., Mr. Kirlin.....Sullivan

SUMMITVILLE, 1,387.
SUMMITVILLE ELECTRIC LIGHT & POWER CO.
Pres., R. C. Howard.....Summitville
Sec., Treas., Mgr. & Cont. Agt.,
M. Warner..... "
Supt. & Engr. P'g Sta.,
E. K. Patterson..... "

TERRE HAUTE, 58,157.
TERRE HAUTE WATERWORKS CO.
Pres. & Gen. Mgr.,
Dow R. Gwinn.....Terre Haute
V. Pres., John L. Crawford.... " "
Sec. & Treas., J. I. Mandeville " "
Engr. P'g. Sta. & Chemist,
W. E. Taylor..... " "
Wabash River; ¾ mi. from center business section; settling basin, 700,000 gal.; mechanical filters, 22-8,000,000 gal.; chemicals, hypochlorite of lime and sulpoate of alumina.
Boilers, 7 tubular 724-hp. Sterling; hand stoking; pumps, 7-24,000,000 gal. Allis C., Holly, Root, Jackson, Clapp and Jones; pumping direct and to reservoir, 775,000 gal.
Pipe, 94 mi. 4 to 12-in. c. i.; hyd. 1099, hose con. 2½-in. mostly R. D. W. and Bourbon; valves, 1057 Eddy, Ludlow and Rennssalaer; meters, 3000 mostly National; av. daily cons. 5,049,000 gal.; serv. con. 6994; ord. pres. 70 lb., fire pres. 130 lb.
Gates: flat, $5 year, bath $3 ,closet $3; meter, min. charge $12 year, 30c. 1000 gal. max., 4¼c. min.

THORNTOWN, 1,508.
MUNICIPAL.
Pres. Bd. Trustees,
Dr. T. M. Hall.....Thorntown

Treas., E. P. Rose.....Thorntown
Supt., B. F. Walters..... "

Impounding reservoir, 18,000 gal. & well, 8-in. 96 ft. deep; near center business section; settling basin, 18,000 gal.

Boilers, one tubular 125-hp. 125 lb. Chandler & Taylor, 2 100-hp. 110 lb., 3 100-hp. 100 lb. Atlas; hand stoking; pumps, one hor. centrifugal Dayton 1909; air lift pump L-D-G 1909; steam engines, one 125-hp. Allfree 1901; one 85-hp. Skinner 1912; driven by elec. motors, one d. c. 20-hp. 220 v. Westg. 1909, one d. c. 15-hp. 220 v.; elec. generators, 3 65 & 75 kva. Commercial & G. E.; pumping to elev. tank, (1909) 40,000 gal.

Pipe, 3.44 mi. 4 to 6-in. c. i.; hyd. 33, hose con. 2½-in. New Jersey Car Spring & Rubber Co.; valves, 6 r. h. opening; meters, 112; av. daily cons. 120,000 gal. 83%; serv. con. 148; ord. pres. 34 to 38 lb., fire pres. 38 to 40 lb.

Rates; 25c. 1,000 gal.

TIPTON, 4,075.

MUNICIPAL.
Supt., Lester Boring.....Tipton

UNION CITY, 3,309.

MUNICIPAL. UNION CITY WORK. Supplies Union City, O.
Supt., Charles Smith.....Union City

Wells, 2 4-in.; near center distribution.

Boilers, 2 hor. tubular 100-hp. ea. Houston; hand stoking; pumps, 2-1,500,000 gal. ea. L. D. G. & Canton; air compressors, 2 Platt & Canton; pumping direct.

Pipe, 13.5 mi. 4 to 12-in. c. i. & wood; hyd. 107, hose con. 2½-in. Bourbon; valves, r. & l. h. thd.; meters, 911 Worth., Union & Pittsburgh; av. daily cons. 502,000 gal.; serv. con. 900; ord. pres. 40 to 45 lb., fire pres. 60 to 80 lb.

Rates; flat, $5 year, bath $3, closet $3; meter, min. $1.25, 10c 100 cu. ft., 6c min.

VALPARAISO, 6,987.

VALPARAISO HOME WATER CO.
Pres., Oliver P. Kinsey.....Valparaiso
V. Pres., S. C. Billings..... "
Sec., M. J. Stinchfield..... "
Treas., J. W. Sieb..... "
Gen. Mgr. & Supt., E. L. Loomis. "
Engr. P'g Sta. & Chemist,
J. F. Bradley..... "

Impounding reservoir, 375,000,000 gal. on Flint Lake & wells, 3 10 & 12-in. 110 ft. deep; 3 mi. from center business section; coagulating basin, 100,000 gal.; mech. filters, 2, 100,000 gal. Pittsburgh; chemical, sulphate of alumina.

Boilers, 2 return tubular 115-hp. 125 lb. Bass 1910; pumps, 1-2,000,000 gal. hor cross comp. c. & f. wh. Hughes 1912, 1-1,500,000 gal. hor. c. & f. wh. Holly 1886, 1-1,000,000 gal. hor. duplex d. act. Deane 1902, 3 vert. single act. Cook 1911, 1-2,000,000 gal. vert. Lawrence 1907, 1-1,500,000 gal. vert. Lawrence 1907, d. con. to steam engine; pumping direct.

Pipe, 24 mi. 4 to 12-in. wood, Michigan Pipe Co.; hyd. 148 Holly & Roe Stephens; valves, 129 l. h. opening; meters, 870 various; av. daily cons. 800,000 gal.; serv. con. 1412; ord. pres. 30 to 80 lb., fire pres. 60 to 110 lb.

Rates; flat, $1.50 quarter, bath $1, closet $1; meter, 50c. mo. 250 cu. ft., 20c. 100 cu. ft. max., 10c. min.

VEEDERSBURG, 1,756.

MUNICIPAL.
Chmn. Comrs., Chas. Grigson. Veedersburg
Supt., W. T. Armstrong..... "

Wells, 2, 8-in. 35 ft. deep; ½ mi. from center distribution.

Boilers, 2 tubular 300-hp. Springfield; hand stoking; pumps, 2-25,000 gal. Platt; pumping to standpipe (1898), iron.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 2½-in. Eddy; valves, 12 Eddy; meters, 200 National and Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 250; ord. pres. 50 lb., fire pres. 110 lb.

VERNON, 453.

MUNICIPAL.
Supt., Thos. B. Reed.....Vernon
Engr. P'g Sta., H. A. Thicksten.... "

Muscatatuc River; near center business section.

Boilers, one return tubular 40-hp. 70 lb. Atlas; pumps, 2 hor. simple d. act. Deane; pumping to stnadpipe, 28,191 gal.

Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 17, hose con. 2½-in.; meters, 2; serv. con. 100, ord. pres. 40 lb.

Rates; flat, $1 year, bath $2, closet $3.50; meter, 20c. 1,000 gal.

VEVAY, 1,256.

MUNICIPAL. Vevay Electric Light & Water Works.
Chmn. Comrs., A. C. Weals.....Vevay
Supt., J. L. Detroz..... "

Ohio River; ¼ to ½ mi. from center business section.

Boilers, 2 tubular 125-hp. Brownell; hand stoking; pumps, 1,000,000 gal. McGowan; pumping to reservoir, 1,800,000 gal. & standpipe (1895).

Hyd. 28, hose con. 2½-in. Bourbon; valves, 45 r. h. thd.; meters, 40 National; av. daily cons. 75,000 gal.; serv. con. 291; ord. pres. 85 lb., fire pres. same.

Rates; flat, $3.50 year, bath $2, closet $2; meter 25c. 1,000 gal.

VINCENNES, 14,895.

VINCENNES WATER SUPPLY CO. Office, 26 So. 3d St., Philadelphia, Pa.
Pres., L. J. Weisenburger.....Vincennes
Sec. & Treas., B. Vanell..... "
V. Pres., H. Schwartz..... "
Cons. Engr., A. W. MacCallum..Phila., Pa.

Wabash River; near center of distribution; settling and coagulating basins, 800,000 gal.; mechanical filters, 3,000,000 gal.; chemicals, hypochlorite of lime and sulphate of alumina.

Boilers, 3 water-tube 700-hp. Heine; hand stoking; pumps, 1-4,000,000 gal. Worth., 1-6,000,000 gal. Snow; pumping to standpipe (1888), iron.

Pipe, 40 mi. 4 to 12-i.; hyd. 380, hose con. 2½-in. Ludlow; valves, 300 r. h. thd. Ludlow and Renssalaer; meters, 300 Hersey, Neptune and National; av. daily cons. 1,600,000 gal.; serv. con. 1816; ord. pres. 58 to 70 lb., fire pres. same.

WABASH, 8,687.

WABASH WATER & LIGHT CO.

Pres., N. G. Hunter ..... Wabash
V. Pres., J. I. Robertson ..... "
Sec., Treas. & Gen. Mgr.,
T. W. McNamee ..... "
Engr. P'g Sta., W. E. Matthews .... "

Wells, 14 6 & 8-in. 45 to 278 ft. deep; 2 mi. from center business section.

Boilers, 2 tubular 350-hp. 150 lb. B. & W. 1913, one Erie 1904; pumps, 2-1,500,000 gal. ea. hor. comp. d. act. Holly 1887, 1-1,000,000 gal. vert. duplex H. O. R. 1901; 1-100,000 gal. hor. American 1910; elec. motor, 75-hp. 2,200 v. 3 ph. 60 cys. G. E. 1909; steam turbines, 2 vert. 750 kw. G. E. 1909; pumping to reservoirs, 2-1,000,000 gal. & standpipe (1887) 368,100 gal.

Pipe, 32 mi. 4 to 12-in. c. i.; hyd. 247, hose con. 2½-in. Ludlow; valves, 108 l. h. opening Ludlow; meters, 600 Neptune, Gamon & Thomson; av. daily cons. 750,000 gal.; serv. con. 2,200; ord. pres. 40 to 55 lb., fire pres. 100 to 120 lb.

Rates; flat, $6 quarter, bath $4, closet $3; meter, $1 mo. 300 cu. ft., 33⅓c. max., 7c. min.

WALKERTON, 1,003.

MUNICIPAL.

Pres., W. E. Smith ..... Walkerton
V. Pres., Fred Sherland ..... "
Supt., Jesse Janeson ..... "

Wells, 6 6-in 40 ft. deep; no purification.

Boilers, 2 hor. 50-hp. 80 lb. Atlas; hand stoking; pumps, 2 hor. simple d. act. Platt; purchase energy from Plymouth, Ind.; pumping to elev. tank, (1895) 50,000 gal. wood, Flint Walling Co.;

Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 22, hose con. 2½-in. Bourbon; valves, 14; serv. con. 155; ord. pres. 40 lb.

Rates; flat, $2, bath $1.50 ,closet $1.50.

WARREN, 1,189.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Vil. Pres., E. Morsburg ..... Warren
City Clerk, F. E. Shultz ..... "
Treas., Monroe Wiley ..... "
Supt., R. Redding ..... "
Engr. P'g Sta., G. Bock ..... "

Boiler, 150-hp. Bass; steam engine, 200-hp. Bass.

WARSAW, 4,430.

WINONA ELECTRIC LIGHT & WATER CO.

Pres., J. F. Beyer ..... Warsaw
Sec., C. S. Dickey ..... Winona Lake
Treas., W. H. Kingery ..... Warsaw
Mgr. & Cont. Agt., B. C. Frazier... "
Engr. P'g Sta., A. G. Menzie ..... "

Boiler, 450-hp. B. & W.; steam engine, 537-hp. Ide.

WASHINGTON, 7,854.

THE WASHINGTON WATER, LIGHT & POWER CO. Office, 405 E. Main St.

Pres., James C. Goodrich ..... Indianapolis
V. Pres., Henry C. Starr ..... "
Sec., B. R. Seamans ..... "
Treas., E. B. Cates ..... "
Gen. Mgr. & Pur. Agt.,
Robt. L. Engle ..... "
Engr. P'g Sta., Gus Gutsch .... Maysville

White River; 3.5 mi. from center distribution; settling & coagulating basins, 2-200,000 gal.; slow sand filters, 2-2,000,000 gal. ea. filtering area 312 ft.; chemical, sulphate of alumina & hypochlorite of lime.

Boilers, 2 water-tube 125-hp. ea. 125 lb. Erie 1900, one water-tube 150-hp. 125 lb. Erie 1908; hand stoking; pumps, 1-2,000,000 gal. hor. comp. d. act. Worth. 1908, 2-1,000,000 gal. ea. hor. comp. d. act. L-D-G 1900, 1-2,000,000 gal. vert. centrifugal Lawrence 1908; elec. motor, 6 kw. 110 v. 3 ph. 60 cys. G. E. 1908; pumping to standpipe (1900) 500,000 gal.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 94, hose con. 2½-in.; valves, 28 r. & l. h. opening Crane; meters, 310 National; av. daily cons. 1,500,000 gal. 94.5; serv. 1,500; ord. pres. 45 to 50 lb., fire pres. 45 to 110 lb.

Rates; flat, $1.50 quarter, bath $4, closet $4; meter, min. charge $2.50 quarter 8,333 gal., 38c. gal. max., 30c., min.

WATERLOO, 1,167.

INDIANA UTILITIES CO.

Mgr., E. J. Condon ..... Waterloo
Supt., J. P. McCague ..... "

Wells, 2, 8-in. 210 ft. deep; ¼ mi. from center distribution.

Pumps, 1-250,000,000 gal. centrifugal; elec. motors, 15 & 25-hp. 220 v. 3 ph. 60 cys. American;; pumping to standpipe (1902), steel and to reservoir 100,000 gal.

Pipe, 1.5 mi. 4 to 12-in. c. i.; hyd. 15, hose con. 2½-in. Bourbon; valves, 9 r. h. thd. Crane; meters, 50 various; av. daily cons. 30,000 gal.; serv. con. 120; ord. pres. 45 to 52 lb., fire pres. 50 to 100 lb.

WEST LAFAYETTE, 3,867.

THE WEST LAFAYETTE WATERWORKS CO. Supplies Purdue University.

Pres., Everett B. Vawter... West Lafayette
V. Pres., Jacob Kirkpatrick . " "
Sec. & Treas., Charles Terry. " "

Wells, 14 6 to 12-in. 65 to 75 ft. deep on bank of Wabash River; one mi. from center business section.

Boilers, 2 hor. tubular 100-hp. ea. 130 lb. Brownell 1905; hand stoking; pumps, 1-2,000,000 gal. hor. duplex tri. exp. d. act. McGowan 1914, 2-1,500,000 gal. hor. comp. duplex d. act. McGowan 11910, 3-1,500,000

gal. hor. comp. d. act. American 1907, 4-5,000,000 gal. hor. comp. duplex d. act. Platt 1893.

Gravity distribution from reserovir (1893) 380,000 gal.

Pipe, 13 mi. 4 to 10-in. c. i.; hyd. 48, hose con. 3-in. Crane, Ludlow & National; valves, 131 l. h. opening Crane; meters, 122 Buffalo; av. daily cons. 1,010,000 gal.; serv. con. 950; ord. pres. 60 to 70 lb., fire pres. same.

Rates; flat, $5.75 year, bath $3, closet $3; meter, $15 year 50,000 gal., 30c. 1,000 gal. max., 10c. min.

WILLIAMSPORT, 1,243.

MUNICIPAL WATER & LIGHT PLANT.

Pres. Comrs., S. P. Speibnerg. Williamsport
Sec. & Treas., Wm. C. Odle... "
Mgr. & Supt., Burton Scott... "
Engr. P'g Sta., Ernest Cox.... "

Boiler, 200-hp. Frost; steam engine, Atlas.

WINIMAC, 1,607.

MUNICIPAL LIGHT & WATER PLANT.

Mgr. & Ch. Engr., Edward Doyle. Winimac
Supt., J. M. Gill..... "

Boiler, 130-hp. Ft. Wayne; steam engine, 85-hp. Buckeye.

WINCHESTER, 4,266.

CITIZENS HEAT, LIGHT & POWER CO.

Pres., J. T. Moorman.....Winchester
V. Pres., C. W. Moore..... "
Sec.-Treas., E. S. Goodrich..... "
Supt. & Engr. P'g Sta., O. N. Eiler "

Wells, 7 8-in. 200 ft. deep; ½ mi. from center distribution; no purification.

Pumps, one triplex Goulds driven by gas engine 40-hp. National (1895), 2 triplex Goulds driven by elec. motors, 2 50 & 75 kw. 220 & 2,200 v. 3 ph. 60 cys. G. E. (1901, 1912); elec. generators, 2 50 & 75 kva. G. E.

Pipe, 12 mi. 4 to 12-in.; hyd. 65 hose con. 2½-in. R. D. W.; valves, 36 r. h. opening Crane; meters, 210; serv. con. 500; ord. pres. 45 to 100 lb., fire pres. 95 to 100 lb.

Rates; flat, $6 year, bath $3, closet $3; meter, $10 year, 25c. 1,000 gal. max., 7c. min.

WOLCOTTVILLE, 627.

MUNICIPAL.

Pres. Comrs., W. I. Lambright..Wolcottville
Comr., H. J. Eshleman..... "
" C. W. Heign..... "
Town Clerk, L. L. Sawyer..... "
Supt. & Engr. P'g Sta., E. A. Carothers..... "

Wells, 2 6-in. 23 to 183 ft. deep; near center business section; no purification.

Pumps, 1-432,000 gal. vert. triplex National 1908 belted to gasoline engine, 25-hp. Alamo 1908; air compressor, 36 cu. ft. Union 1914; pumping to elev. tank, steel.

Pipe, 1.5 mi. 4 to 6-in. c. i.; hyd. 13, hose con. 2½-in.; valves, 5 r. h. opening Crane; meters, 60 Buffalo & Pittsburgh; serv. con. 60, ord. pres. 50 to 85 lb., fire pres. 70 to 85 lb.

Rates; meter, 50c. quarter, 20c. 1,000 gal.

WORTHINGTON, 1,732.

INDIANA WATER & LIGHT CO.

Pres. & Treas., W. E. Daniels. Worthington
V. Pres., J. M. Daniels..... "
Sec., E. B. Daniels..... "

Boiler, 200-hp. Atlas; steam engine, 110-hp. Ideal.

ZIONSVILLE, 840.

ZIONSVILLE WATER & ELECTRIC LIGHT CO. (Operated by W. C. McCaskey & Co., Lansing, Mich.)

Pres., W. T. McCaskey.....Lansing, Mich.
Sec.-Treas., S. F. Seager.... " "
Genl. Mgr., E. Holcomb.... " "
Pur. Agt. & Asst. Mgr., F. E. Wood..... " "
Supt. & Engr. P'g Sta., W. H. Palmer..... " "

Well, 4 ft. in diam. 27 ft. deep; near center distribution; no purification.

Pumps, 1-360,000 gal. triplex Deming belted to elec. motor, 8 tw. 220 v. 3 ph. 25 cys. Westg.; pumping direct.

Pipe, 3 mi. 1 to 3-in.; hyd. 30, hose con. 1½-in.; 40 to 65 lb., fire pres. 60 to 80 lb.

Rates; meter, 30c. 1,000 gal.

IOWA

ADAIR, 900.
MUNICIPAL.
Mayor, F. E. Gales.....Adair
Supt., P. E. Morse..... "
Well, 7.
Pump, 180,000 gal. American driven by elec. motor, 15 hp. 220 v. 3 ph. 60 cys. Westg.; pumping direct and to standpipe (1911), steel.
Hyd. 30, hose con. 4-in.; valves, 10; ord. pres. 45 lb., fire pres. 100 lb.
Rates: meters, 50c. 1000 gal. max., 35c. min.

ADEL, 1,289.
MUNICIPAL.
Mayor, A. J. Goodrich.....Adel

AFTON, 1,014.
MUNICIPAL.
Mayor, Wm. Glattly.....Afton
Chmn. Comrs., C. W. Kelly..... "
Comr., M. B. Cohen..... "
Cons. Engr., C. W. Roland....Des Moines
Town Clerk, F. A. Shute.....Afton
Well, 10 ft. in diam. 35 ft. deep; ¾ mi. from center distribution.
Pumps, 1-67,600 gal. Deane driven by elec. motor 220 v. s. ph. 60 cys. F. M.; pumping to elev. tank, 50,000 gal., steel.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 26 Ludlow valves, 15 Ludlow.

AKRON, 1,130.
MUNICIPAL LIGHT & WATERWORKS.
Supt., J. C. Rogers.....Akron

ALBIA, 4,969.
MUNICIPAL.
City Clerk, C. C. Atchison.....Albia

ALGONA, 2,906.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Mayor, Jos. W. Wadsworth.....Algona
City Clerk, S. W. Crowell..... "
Treas., Wm. Cleary..... "
Supt., J. W. Kelly..... "

ALLISON, 495.
MUNICIPAL.
Well; near center distribution; no purification.
Pump, 24-in. Goulds; pumping to standpipe, wood.

ALTA, 959.
MUNICIPAL.
Comr., A. E. Benson.....Alta
" Lars Larson..... "
" F. N. Sipe..... "
Supt., Geo. Gurney..... "
Engr. P'g. Sta., M. Mikelson..... "
Wells, 2 3 ft. diam. 76 ft. deep; near center distribution.
Boilers, 3 hor. Kewanee and Frost; hand stoking; pumps, 1-43,200 gal. steam, 1-43,200 gal. driven by elec. motor, 12.5 kw. 220 v. d. c. Western; pumping to elev. tanks (1912), 45,000 gal., steel.
Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 17, hose con. 2½-in. Crane; valves, 7; meters, 30 various; av. daily cons. 5,000 gal.; serv. con. 45; ord. pres. 45 lb., fire pres. same.
Rates: flat, $10 year; meter, 40c. 1000 gal.

ALTON, 1,046.
MUNICIPAL.
Supt., C. Miller.....Alton

AMES, 4,223.
MUNICIPAL.
Supt., Chas. E. Warsaw.....Ames
Wells, 3, 8 to 12-in. 105 ft. deep ½ mi. from center distribution; no purification.
Pumps, 1-476,000 gal., 2-180,000 gal. ea. Keystone, Hill and Deane; elec. motors,22 kw. 220 v. 3 & 2 ph. 60 cys. G. E. and Western; pumping to elevated tank, 60,000 gal., steel.
Pipe, 12.3 mi. 4 to 12-in. c. i.; hyd. 80, hose con. 2½-in. Eddy; valves, 155 l. h. opening; meters, 1000 Neptune; av. daily cons. 150,000 gal.; serv. con. 1000; ord. pres. 30 to 45 lb., fire pres. 85 lb.
Rates: all meter, 30c. 100 cu. ft. max., 13c. min.

ANIMOSA, 2,983.
MUNICIPAL.
Mayor, W. D. Sheean.....Animosa
City Clerk, C. F. Fisher..... "
Marshall, H. W. Johnson..... "

ANITA, 1,118.
MUNICIPAL.
Mayor, Geo. Scholl.....Anita
Comr. & Supt., S. V. Jenkins..... "
" E. W. Holmes..... "
Town Clerk, J. C. Jenkins..... "
Engr. P'g. Sta., C. A. Exline..... "
Wells, 8, 6-in. 38 ft. deep; ¼ mi. from center distribution.
Pumps, 1-34,600 gal. d. c. to gasoline engine, 55-hp. St. Marys; pumping to elev. tanks, 2-16,000 gal. ea.
Pipe, 3 mi. 4 to 6-in., iron; hyd. 21, hose con. 2-in.; meters, 30,000 Pittsburgh; av. daily cons. 5000 gal.; serv. con. 35; ord. pres. 70 lb., fire pres. 54 to 110 lb.
Rates: all meter, min. charge $2 quarter, 50c. 1000 gal. max., 3c. min.

ANTHON, 635.
MUNICIPAL.
Supt., S. R. Lucas..... Anthon

ARLINGTON, 678.
MUNICIPAL.
Comr., J. M. Welch.....Arlington
" Frank Gitchell..... "
" C. D. Glenn..... "
Supt., J. I. Wiltsie..... "
Wells, 2 5⅝-in.; no purification.
Pumps, 2-57,600 gal. vert. single Myers;

pumping to elev. tank (1901) 18,500 gal. wood, Jackson & Moss.

Pipe, ½ mi. 4 & 6-in. c. i.; hyd. 6, hose con. 3-in. Eureka; meters, 12; ord. pres. 26 to 43 lb.

Rates; flat, $5 year, bath $8, closet $8; meter, 25c. quarter, 35c. 1,000 gal. max., 20c. min.

ARTHUR, 350.

MUNICIPAL.

Mayor, L. Harting.....Arthur
Town Clerk, Fred J. Whinery..... "

Wells, 2, 20 ft. in diam. 20 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, 1-412,000 gal. Deming driven by gasoline engine 25-hp. F. M.; pumping to elev. tank, 40,000 gal., steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 18, hose con. 2½-in.; valves, 10; meters, 85 Neptune; av. daily cons. 30,000 gal.; serv. con. 60; pres. ord. 70 lb., fire pres. same.

Rates: all meter, 25c. 1000 gal.

ASHTON, 518.

MUNICIPAL.

Town Clerk, J. W. Clark.....Ashton
Fire Chief, A. Streit..... "

Artesian well, 2 ft. in diam. 55 ft. deep; near center distribution; no purification.

Air lift and small air compressor.

Av. daily cons. 2660 gal.; serv. con. 30; ord. pres. 45 to 65 lb., fire pres. 65 to 70 lb.

Rates: meter, 25c. 1000 gal.

ATLANTIC, 4,560.

MUNICIPAL.

Supt., T. E. Nichols.....Atlantic
Ch. Engr. P'g. Sta., V. C. Carlson. "

Wells, 38, 4 to 6-in. 100 ft. deep.

Boilers, 4 tubular 450-hp. Murray; hand stoking; pumps, 2-2,500,000 gal. Platt; pumping direct.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 120, hose con. 2½-in. Holly and Kupferle; valves, 25 r. h. thd. Holly and Crane; meters, 150 Hersey, Neptune, Thompson and Pittsburgh; av. daily cons. 700,000 gal.; serv. con. 1200; ord. pres. 80 to 85 lb., fire pres. 85 to 150 lb.

Rates: flat, $5 year, bath $3, closet $3; meters, 35c. 1000 gal., max. 10c. min.

AUDUBON, 1,928.

MUNICIPAL.

City Clerk, N. J. Laubender.....Audubon

AURELIA, 625.

MUNICIPAL.

Engr. P'g. Sta., B. Butterfield....Aurelia

Well, 6-in. 300 ft. deep; no purification.

Pump driven by gasoline engine, 16-hp. White; pumping to elevated tanks, 2 (1904).

Hyd. 25; ord. pres. 60 to 90 lb., fire same.

Rates; meter, min. charge 50c. mo., 50c. 1000 gal.

AVOCA, 1,520.

MUNICIPAL.

Supt., B. A. Kieenke.....Avoca

BEDFORD, 1,883.

MUNICIPAL.

Supt., K. E. Stephens.....Bedford

BELLE PLAINE, 3,121.

MUNICIPAL.

Comr., J. H. Zellars.....Belle Plaine
" R. L. Hancock..... " "
" J. A. Williams..... " "
City Engr., L. S. Abbott..... " "
Cons. Engr., Chas. P. Chase.... " "
Engr. P'g. Sta., M. E. Hunt.... " "

Artesian wells, 3, 2 & 3-in. 213 ft. deep; ¼ mi. from center distribution; no purification.

Pump, triplex Goulds belted to elec. motor, 20 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to elevated tank, 90,000 gal., wood.

Pipe, 9.5 mi. 4 to 12-in. c. i.; hyd. 58, hose con. 2½-in. Ludlow; valves, 32 l. h. opening Glamorgan; meters, 250 Pittsburgh; av. daily cons. 147,000 gal.; serv. con. 250; ord. pres. 60 to 67 lb., fire pres. 120 lb.

Rates; all meter, min. charge $1.25 quarter, 25c. 1000 gal. max., 9c. min.

BELLEVUE, 1,776.

MUNICIPAL.

Comr., Jos. E. McKillip.....Bellevue
" L. E. Yeager..... "
Clerk, Henry Graaff..... "
Supt., Jos. Wuerth..... "

Well, 25 ft. in diam. 30 ft. deep; chemical, hypochlorite of lime.

Boiler, tubular 90-hp. Kewanee; hand stoking; pumps, 1 steam 360,000 gal. Smedley, 1 centrifugal 360,000 gal. Yeoman; elec. motor, 35-hp. 2300 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 165,000 gal.

Hyd. 26, hose con 2½-in.; meter, 126 National and Neptune; av. daily cons. 65,000 gal.; serv. con. 127; ord. pres. 95 lb., fire pres. same.

Rates; meter, min. charge $3 year 25c., 1000 gal.

BELMOND, 1,224.

MUNICIPAL.

Supt., G. J. Byers.....Belmond
Engr. P'g Sta., E. E. Wilcox..... "

Well, 6-in. 500 ft. deep; near center business section.

Boiler, 50-hp. 1911; hand stoking; pump, 1-225,600 gal. hor. comp. d. act. 1896; pumping to elev. tank (1896) 37,700 gal. wood.

Pipe, 4.5 mi. 4 & 8-in. c. i.; hyd. 35, hose con. 2½-in. Ludlow & Rensselaer, valves, 42 l. h. opening Ludlow; meters, 141 various; av. daily cons. 15,000 gal. 75%; serv. con. 141; ord. pres. 40 lb., fire pres. 40 to 80 lb.

Rates; meter, 40c. 1,000 gal. max., 10c. min.

BETTENDORF, 909.

BETTENDORF IMPROVEMENT CO.

Pres., J. W. Bettendorf.....Bettendorf
Sec. & Treas., Thomas Fratcher. "
Supt., L. M. Balzer..... "

Artesian wells; settling basin, 50,000 gal.; chemicals, none.

Pumps, 1-684,000 gal. driven by elec. motor, 50-hp. 2200 v. 3 ph. 60 cys. G. E.; pumping to elev. tank, 100,000 gal., steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 2½-in. Clow; valves, 26 l. h. thd. Clow; meters, 350 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 250; ord. pres. 100 lb., fire pres. same.

Rates; meter, 36c. 1000 gal.

BLOOMFIELD, 2,028.

MUNICIPAL.

Town Treas., R. C. Bristow.....Bloomfield
Supt. & Engr. P'g. Sta.,
T. Z. Millard..... "

Well, 12-in. 1817 ft. deep; near center distribution; settling basin, 12x27 ft.

Boilers, 2 Scotch Marine 200-hp. Murray; hand stoking; pumps, 1-20,000 gal. Worth.; pumping to elevated tank, 40,000 gal,. iron.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 60; meters, 150 Worth. and Buffalo; av. daily cons. 39,000 gal.; serv. con. 150; ord. pres. 40 lb., fire pres. 100 lb.

Rates; meter, min. charge $1.50 quarter, 40c. 1000 gal. max., 30c. min.

BONAPARTE, 597.

MUNICIPAL.

City Clerk, E. C. Smith.....Bonaparte

BOONE, 10,347.

MUNICIPAL.

Mayor, Jno. S. Crooks.....Boone
Chmn. Wtr. Wks. Committee, Wm. Crowe, Sr..... "
City Clerk, Otto Hile..... "
Supt. & Des. Engr., K. C. Kastberg... "
Chemist, C. N. Kinney..... "

Impounding reservoirs, 3-4,000,000 gal. & wells, 18 12-in. 20 ft. deep; 4 mi. from center business section; chemical, hypochlorite of calcium.

Boilers, 2 Scotch marine 150-hp. 150 lb. Springfield 1911, 2 Scotch marine 100-hp. 110 lb. Murray 1898; hand stoking; 1-3,000,000 gal. hor. cross comp. c. & f. wh. Platt 1911, 1-2,000,000 gal. comp. duplex d. act. F. M. 1911, 1-2,500,000 gal. hor. cross comp. c. & f. wh. Platt 1911, 2-500,000 gal. ea. duplex Deane 1890, 2-3,000,000 gal. hor. centrifugal Brownell & Platt 1911; steam engine, one 30-hp. Platt 1912; pumping to elev. tank (1888) 20,000 gal. steel & brick.

Pipe, 25 mi. 4 to 14-in. c. i.; hyd. 338, hose con. 2½-in. Ludlow, Eddy & Iowa; valves, 150 r. h. opening Ludlow, Eddy, Crane & Iowa; meters, 1,600 various; av. daily cons. 1,200,000 gal. 85%; serv. con. 1,800; ord. pres. 40 to 55 lb., fire pres. 40 to 125 lb.

Rates; meter, 50c. mo. 100 cu. ft., 35c. 1000 gal. max., 12c. min.

BRITT, 1,303.

MUNICIPAL.

Chmn. Comrs., Frank Busslick.....Britt

Pumping by Britt Light & Power Co.

BROOKLYN, 1,233.

MUNICIPAL.

Supt., Frank R. Talbott.....Brooklyn

BUFFALO CENTER, 753.

MUNICIPAL.

Supt., C. W. Galagan.....Buffalo Center

Well, 6-in. 303 ft. deep; near center distribution; no purification.

Pump, one American driven by gasoline engine, 5-hp. F. M.; pumping to elevated tank, 45,700 gal. wood.

Pipe, one mi. 4 to 8-in. c. i.; hyd. 10, hose con. 2½-in. Roe-Stephens; valves, 4 r. h. thd. Roe-Stephens; meters, 22 National and Neptune; serv. con. 24; ord. pres. 42 lb.

BURLINGTON, 24,324.

CITIZENS WATER CO.

Pres., E. P. Eastman.....Burlington
Sec., W. F. Gilman..... "
Treas., Wm. C. Foster..... "
Supt., Frank Lawlor..... "

Mississippi River; 1 mi. from center distribution; settling basins, 4-22, 28, 35, & 44 ft. in diam. 30 ft. high; mechanical filters, 10-6,000,000 gal.; chemical, sulphate of alumina.

Boilers, 5 return tubular, 4 80-hp. ea. 115 lb., one 100-hp. 130 lb. Murray; hand stoking; pumps, 1-6,000,000 gal. quadruplex Holly 1877, 1-3,500,000 gal. hor. comp. duplex c. & f. wh. Holly 1890, 1-6,000,000 gal. hor. comp. duplex. c. & f. wh. Holly 1894, 1-6,000,000 gal. hor. comp. duplex. c & f. wh. Murray 1903, 2-2,000,000 & 3,000,000 gal. centrifugal American; driven by steam engine, tandem comp. Murray; pumping direct.

Pipe, 49.25 mi. 4 to 30-in. c.,i.; hyd. 490, hose con. 2¼-in.; valves, 636 l. h. thd. Eddy and Rensselaer; meters, 200 National and Neptune; av. daily cons. 2,247,000 gal., serv. con. 4445; ord. pres. 25 to 100 lb. fire pres. 65 to 140 lb.

Rates: flat, $6 year, bath $5, closet $5; meter, min. charge, $1 mo., 25c. 1000 gal. max., 10c. min.

CALMAR, 849.

MUNICIPAL.

Mayor, J. F. Conover.....Calmar
Supt., Frank Pletka..... "

Well, 400 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, one driven by gasoline engine; pumping to elevated tank, 50,000 gal., steel.

Hyd. 30; meters, none; av. daily cons. 27,500 gal.; serv. con. 110; ord. pres. 45 lb.

Rates: flat, $10 year with bath and closet; meter, 20c. 1000 gal.

CAMBRIDGE, 696.

MUNICIPAL.

Supt., A. M. Mason.....Cambridge

CARROLL, 3,546.

MUNICIPAL.

Supt., G. C. Beiter.....Carroll

Wells, 3 2 to 10-in. 124 to 130 ft. deep; ½ mi. from center business section.

Pumps, 2-504,000 gal. triplex Goulds 1910, 2-288,000 gal. Goulds 1908 & 1910, 1-504,000 gal. Roth 1911, d. con. to elec. motors, 5 d. c. 30, 35 & 75-hp. 220, 2200 & 2080 v. 3 ph. 60 cys. G. E. 1910 - 1911 & Westg. 1911; pumping to standpipe (1897) 200,000 gal. steel, Tranzway.

Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 65, hose con. 2½-in. Ludlow & R. D. W.; valves, 40 l. h. opening Eddy & Rensselaer; meters, 350 National & Neptune; av. daily cons. 325,000 gal. 48%; serv. con. 800; ord. pres. 65 to 75 lb., fire pres. 65 to 90 lb.

Rates; flat, $6 year, bath $3.60, closet $3.20; meter, 45c. mo., 30c. 100 cu. ft. max., 11c. min.

CEDAR FALLS, 5.212,

MUNICIPAL.

Supt., C. H. Streeter.....Cedar Falls
Ch. Engr. P'g. Sta., A. Powell.. " "

Wells, 3 8-in. 125 ft. deep.

Boilers, 3 hor. fire-tube 150-hp. ea. Murray, one hor. fire-tube 75-hp. Kewanee; hand stoking; pumps, 1-750,000 gal. hor. simple duplex Worth. 1899, 1-1,500,000 gal. hor. comp. duplex Smedley 1891, 1-2,000,000 gal. hor. comp. duplex. c. & f. wh. Prescott 1912; pumping to standpipe (1913) 100,000 gal.

Pipe, 19 mi. 4 to 12-in. c. i.; hyd. 122, hose con. 2½-in. R. D. W.; valves, 152 l. h. thd. Eddy; meters, 802 National; av. daily cons. 482,000; serv. con. 1310; ord. pres. 60 to 87 lb., fire pres. 60 to 125 lb.

Rates: flat, min. $5 year; meter, 25c. 1000 gal. max., 6½c. min.

CEDAR RAPIDS, 32,811.

MUNICIPAL.

Supt., Chas. J. Fox.....Cedar Rapids

Cedar River; ¼ mi. from center distribution; settling basin, 6,000,000 gal.; mechanical filters, 4,000,000 gal.; chemical, hypochlorite of lime.

Boilers, 2 water-tube 350-hp. Murray; hand stoking; pumps, 1-2,000,000 gal. Worth., 1-3,000,000 gal. Worth., 1-5,000,000 gal. Worth.; pumping direct.

Pipe, 78 mi. 4 to 30-in.; hyd. 535; meters, 6600 various; av. daily cons. 2,400,000 gal.; serv. con. 6900; ord. pres. 60 lb., fire pres. 120 lb.

CENTERVILLE, 6,936.

CENTERVILLE WATER CO.

Pres., Homer C. Crawford.....Centerville
Sec., Treas., Robert Crawford... "
Mgr. & Supt., W. D. Dotterrer. "

Cooper Creek; 1½ mi. from center distribution; impounding reservoir, 93,000,000 gal.; mechanical filters, 480,000 gal. Pittsburgh; chemicals, hypochlorite of lime and sulphate of alumina.

Pumps, 1-432,000 gal. triplex Deane, 1-612,000 gal. centrifugal Alberger d. con. to elec. motors, 35-hp. 2300 v. 3 ph. 60 cys. G. E., 40-hp. 2300 v. 3 ph. 60 cys. Westg.; pumping direct and to elevated tank, 155,000 gal., steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 76, hose con. 2½-in. Eddy; valves, 54 r. & l. h. thd. Eddy; meters, 525 Hersey and National; av. daily cons. 200,000 gal.; serv. con. 530; ord. pres. 45 to 51 lb., fire pres. same.

Rates: flat, 50c. mo.; meter, 50c. 1000 gal. max., 15c. min.

CHARLES CITY, 5,892.

MUNICIPAL.

Mayor, J. H. McLeod.....Charles City
Chmn. Comrs., Adam Koebrick " "
City Engr., W. S. Beattie..... " "
Supt. & Engr. P'g. Sta.,
Frank Herber..... " "

Wells, 3 6 to 12-in. 245 to 1390 ft. deep; reservoir, 360,000 gal.; ¼ mi. from center distribution.

Pumps, 1-720,000 gal. deep-well and centrifugal Hill-Tripp 1914; 1-360,000 gal. vert. triplex Goulds, 1-540,000 gal. vert triplex Goulds 1914, 2-720,000 gal. ea. centrifugal Goulds 1914 driven by elec. motors, 15, 22.5, 37.5, 45 & 45 kw. 2300 v. 3 ph. 60 cys. Westg.; electric energy from Cedar Valley Power Co.; pumping direct and to standpipe (1896) steel.

Pipe, 17 mi. 4 to 12-in. c. i.; hyd. 99, hose con. 2½-in. Rensselaer and Eddy; valves, 60 l. h. thd. Eddy; meters, 895 Pittsburgh, Neptune and Hersey; av. daily cons. 330,000 gal.; serv. con. 816; ord. pres. 40 to 55 lb., fire pres. 95 to 110 lb.

Rates: all meter, 30c. 1000 gal max., 7c. min.

CHEROKEE, 4,884.

MUNICIPAL.

Supt. & City Clerk,
Wm. Shardlow.....Cherokee

Wells, 7, 4 to 10-in. 185 to 212 ft. deep; ¼ mi. from center business section; reservoirs, 2-285,000 gal.; no purification.

Boilers, 2 hor. return tubular 80-hp. ea. 100 lb. Kewanee 1907 and Murray 1895; hand stoking; pumps, 2-938,000 gal. ea. hor. simple duplex F. M.; pumping to standpipe (1889) iron.

Pipe, 11 mi. 4 to 10-in. c. i.; hyd. 64, hose con. 2½-in. R. D. W.; valves, 75 r. & l. h. thd. Roe-Stephens, Crane and Eddy; meters, 750 various; av. daily cons. 200,000 gal.; serv. con. 760; ord. pres. 60 to 85 lb., fire pres. 125 lb.

Rates: meter, min. charge 25c. mo., 25c. 1000 gal.

CLARENCE, 662.

MUNICIPAL.

Supt., H. W. Lohman.....Clarence

CLARINDA, 3,832.

MUNICIPAL.

City Business Mgr., T. A. Wilson..Clarinda
Chmn. Comrs., W. H. Harnagel... "
Supt., C. A. Miller..... "

Wells, one 10 ft. in diam. 65 ft. deep, 2, 6-in. 50 ft. deep; chemical, hypochlorite of lime.

Pumps, 3 deep-well Goulds driven by

electric motors, 10 kw. 220 v. 2 ph. G. E. & Westg.; pumping to standpipe (1903), iron.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 140, hose con. 4-in. Ludlow; meter, 700 various; av. daily cons. 175,000 gal.; serv. con. 735; ord. pres. 63 lb.; fire pres. same.

Rates: meter, min. charge $2 year, 20c 1000 gal.

CLARION, 2,065

MUNICIPAL.

Supt., Bruce Staples.....Clarion

Well, 4-in. 190 ft. deep; near center business section; no purification.

Pump, 1-90,000 gal. triplex Goulds 1912 belted to elec. motor, 7½-hp. 220 v. d. c. G. E. 1912; pumping to elev. tank (1904) 30,000 gal. iron.

Pipe, 3 mi., hyd. 25; meters, 200 Pittsburgh; av. daily cons. 55,000 gal. 75%; serv. con. 200.

Rates; meter, $1.20 quarter 3000 gal., 40c. 1000 gal. max., 8c. min.

CLEAR LAKE, 2,014.

MUNICIPAL.

Supt., F. L. Rogers.....Clear Lake
City Engr., H. D. Keere ..... " "

CLINTON, 25,577.

CLINTON WATERWORKS CO. (Controlled by American Water Works & Electric Company, 50 Broad St., New York, N. Y.)

Pres. G. E. Hoffmaster...New York, N. Y.
V. Pres., J. C. Adams.... " " " "
Sec., H. B. Rhine..... " " " "
Treas., R. M. Wilson.... " " " "
Supt., W. L. Meeker.....Clinton

Artesian wells, 5 8 & 10-in. 1,500 to 2,150 ft. deep; near center distribution; settling basin.

Boilers, 3 return tubular 100-hp. ea., 3 tubular 120-hp. ea., 4 vertical 100-hp.; hand stoking; pumps, 1-2,000,000 gal. hor. comp. d. act. Gordon & Maxwell 1888, 1-3,000,000 gal. tandem comp. duplex double act. L-D-G 1896, 1-5,000,000 gal. hor. comp. Holly 1892, 1-2,000,000 gal. double act. Worth. 1899, one simple duplex double act. Worth. 1910; pumping direct.

Pipe, 48 mi. 2 to 16-in. c. i. & galv. i.; hyd. 389, hose con. 2½-in.; valves, 265; meters, 779 various; av. daily cons. 2,000,000 gal.; ord. pres. 60 lb., fire pres. 100 lb.

Rates; flat, $6 year, bath $5, closet $3; meter, $6 year 20,000 gal., 30c. 1,000 gal. max., 10c. min.

COGGON, 650.

MUNICIPAL.

Mayor, F. E. Patton.....Coggon
Comr., J. J. McAreavy..... "
" S. J. Lyttle..... "
Town Clerk, F. W. Lindahl..... "
Engr. P'g. Sta., E. E. McElwain... "

Wells, 2-250 ft. deep; no purification.

Pumps, driven by gasoline engine, Stover; pumping to elev. tank (1885) wood.

Hyd. 20; serv. con. 50.

Rates: flat, $5 year.

COLFAX, 2,524.

MUNICIPAL.

Mayor, David Tripp.....Colfax

COLLINS, 521:

MUNICIPAL.

Mayor, C. G. Vasey.....Collins
Comr., A. H. Hanxson..... "
" O. B. Patterson..... "
City Clerk, J. Birsuecker..... "

Impounding reservoir, 50,000 gal. & well, 6-in. 278 ft. deep; near center business section; no purification.

Pumps, 1-23,040 gal. hor. simple d. act. 1899 belted to gasoline engine, 20-hp. Waterloo 1899; pumping to elev. tank.

Pipe, one mi. 4-in. c. i.; hyd. 18, hose con. 2½-in. Goodyear; valves, 2 l. h. opening St. Louis; meters, 18 Uptom; av. daily cons. 25,000 gal. 60%; ord. pres. 50 to 80 lb., fire pres. 60 to 90 lb.

Rates; flat, $6 year; meter, 70c. 1,000 gal.

COLUMBUS JUNCTION, 1,185.

MUNICIPAL.

Mayor, R. J. Reaney....Columbus Junction

COON RAPIDS, 1,084.

MUNICIPAL.

Deep well; pump & engine, Alamo.

CORNING, 1,702.

MUNICIPAL.

Chmn. Comrs., John O'Donald..Corning
Comr., L. S. Preston..... "
" F. C. Reese..... "
Town Clerk, W. C. Chubb..... "
Supt. & Engr. P'g Sta.,
J. E. Roberts..... "

Wells, 24 ft. in diam. 48 ft. deep; near center business section.

Boilers, 2 hor. tubular 60 & 80-hp. 80 lb. Frost 1909 & Murray 1896; pumps, 1-159,-200 gal. hor. simple d. act. Union 1910, 1-288,000 gal. hor. duplex d. act. Smedley 1896; pumping to elev. tank (1906) 80,-000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 5 mi. 6 & 8-in. c. i.; hyd. 30, hose con. 2½-in. Kupferle; valves, 12 r. h. opening Crane; meters, 300 Neptune, Pittsburgh & Thomson; av. daily cons. 60,000 gal. 75%; serv. con. 400; ord. pres. 85 to 97 lb., fire pres. same.

Rates; flat, $5 quarter, bath $2, closet $3; meter, $4 year, 35c. 1,000 gal. max., 19c. min.

CORYDON, 1,669.

MUNICIPAL.

Mayor, J. N. McCoy.....Corydon
Chmn. Comrs., W. J. Farris..... "

Well, 12-in. 100 ft. deep; air compressor, Ingersoll-Rand 1914; driven by elec. motors, 2 a. c. 30-hp. 110 v. s. ph. 60 cys. Wagner 1910-15; pumping to reservoir, 125,000 gal. & elev. tank (1910) 75,000 gal.

Hyd. 53, hose con. 2½-in. Iowa.
Rates; meter, 50c. mo. 500 cu. ft., 40c. 1000 gal. max., 30c. min.

COUNCIL BLUFFS, 29,293.
MUNICIPAL.
Chmn. Comrs.,
J. Chris Jensen.....Council Bluffs
Comr., Wm. Coppock..... " "
Sec., S. T. McAfee..... " "
Supt., S. L. Etnyre..... " "
Engr. P'g. Sta.,
Robert Young..... " "
Chemist, J. B. Thornell..... " "
Missouri River; 3 mi. from center distribution; impounding reservoir, 6,500,000 gal. settling and coagulating basins, 8,750,000 gal., chemical, sulphate of alumina.
Boilers, 4 Scotch marine 200-hp. ea. 125 lb. Murray; pumps, 2-14,000,000 gal. ea. centrifugal Platt 1912, 2-3,000,000 ea. gal. hor. comp. duplex. Knowles 1883, 1-8,000,000 gal. hor. comp. duplex c. & f. wh. Snow 1912; elec. motors, 75 kw. 2200 v. 3 ph. 60 cys. Allis-C; elec. energy from local elec. light company; pumping direct and to reservoir, 4,500,000 gal.
Pipe, 60 mi. 4 to 30-in. c. i.; hyd. 400, hose con. 2½-in. various; valves, 450 r. h. thd. Ludlow, Iowa and Kennedy; meters, 4800 mostly Neptune; av. daily cons. 3,500,000 gal.; serv. con. 5900; ord. pres. 125 lb., fire pres. 145 lb.
Rates: flat, $7.75 year, bath $3, closet $3; meter, 5c. 1000 gal. max., 12.5c. min.

CRESCO, 2,658.
MUNICIPAL.
Mayor, A. E. Barker.....Cresco

CRESTON, 6,924.
TAXPAYERS MUNICIPAL WATERWORKS. (Privately owned).
Pres., J. C. Sullivan.....Creston
Sec., W. H. Brady..... "
Treas., S. D. Wallace..... "
Supt., C. A. Croxen..... "
Impounding reservoir, 3,000,000 gal.; settling and coagulating basins, 2-1,000,000 gal. ea.; mechanical filters, 1,200,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina, sulphate of iron and lime.
Boiler, 2 fite-tube 150-hp 100 lb. Murray 1912; hand stoking; pumps, 1-2,000,000 gal. hor. comp. duplex Platt, 1-1,000,000 gal. hor. comp. duplex Barr, one centrifugal Van Wie; pumping direct and to standpipe (1890), iron.
Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 142, hose con. 2½-in. R. D. W.; valves, 56 l. h. thd. Eddy; meters, 700 National and Neptune; av. daily cons. 600,000 gal.; serv. con. 750; ord. pres. 35 lb., fire pres. 90 lb.
Rates; flat, $8 year; meter, min. charge $10 year, 35c. 1000 gal. max., 15c. min.

DANBURY, 558.
MUNICIPAL.
Vil. Pres., J. L. Mohr.....Danbury
Chmn. Comrs., J. P. Sexton..... "
Sec., Louis Derr.....Danbury
Treas., P. McLaughlin..... "
Supt., Harold C. Kinney..... "
Engr. P'g. Sta., Mark Brady..... "
Wells, 2, 8-in. 28 ft. deep.
Pumps, 2-129,600 and 172,000 gal. F. M. driven by gasolene engine, 12-hp. Olds and elec. motor, 440 v. 3 ph. 60 cys. Wagner; pumping to air pressure tank 13,500 gal.
Hyd. 9, hose con. 3-in. 1v. daily cons. 15,000 gal.; serv. con. 90; ord. pres. 30 to 75 lb., fire pres. same.
Rates: flat, $1 quarter.

DAVENPORT, 43,028.
DAVENPORT WATER CO.
Pres., F. H. Griggs.....Davenport
Sec., Jas. P. Donahue..... "
Mgr., C. R. Henderson..... "
Supt., Thomas N. Hooper..... "
Mississippi River; 1½ mi. from center distribution; coagulating basin, 5,000,000 gal.; mechanical filters, 8,000,000 gal.; chemicals, sulphate of alumina and hypochlorite of lime.
Boilers, 2 hor. return tubular 80-hp. ea., Murray 1893 and Kewanee 1910, 6 water-tube 250-hp. ea. 100 lb. Wickes 1901 and 2, 1913; mechanical stoking, Green; pumps, 2-5,760,000 gal. centrifugal A'lis C. 1901, 1-5,000,000 gal. vert. triple exp. c. & f. wh. Holly 1897, 1-6,000,000 gal. hor comp. duplex Worth. 1887, 1-10,000,000 gal. vert. triple exp. c. & f. wh. Holly 1914, 2-5,000,000 gal. ea. hor. comp. duplex c. & f. wh. Clapp & Jones 1883 and Holly 1897, 1-2,000,000 gal. Gordon 1890; pumping direct and to reservoir, 5,000,000 gal.
Pipe, 92 mi. 4 to 24-in. c. i.; hyd. 875, hose con. 2½-in. Ludlow; valves, 1800 r. h. opening Ludlow; meters, 5000 National, Neptune and Worth.; av. daily cons. 4,000,000 gal.; serv. con. 9000; ord. pres. 40 to 100 lb. fire pres. 70 to 130 lb.
Rates: flat, $6 year, bath $3.50, closet $4.50; meter, 30c. 1000 gal. max., 10c. min.

DAYTON, 717.
MUNICIPAL.
Supt., J. A. Cling.....Dayton
Well, 8-in. 760 ft. deep; 3 center business section; no purification.
Pumps, one vert. single 1901 geared to gasoline engine, 8-hp. F. M. 1901; pumping to elev. tank (1911) 60,000 gal. steel, Des Moines Bridge & Iron Co.
Pipe, 2 mi. 4 & 6-in. c. i.; hyd. 20, hose con. 3-in. U. S. Wind Engine & Pump Co.; valves, 4 r. h. opening; serv. con. 80; ord. pres. 35 to 40 lb.
Rates; meter, 50c. 100 cu. ft. max., 30c min.

DENISON, 3,133.
MUNICIPAL.
City Clerk, E. F. Tucker.....Denison

DES MOINES, 86,368.
DES MOINES WATER CO. Office, 93 Exchange Place, Portland, Me.

Pres., C. H. Payson.....Portland, Me.
Treas., E. R. Payson..... " "
Gen. Mgr., C. S. Denman.... Des Moines
Ch. Engr., & Chemist, B. M. Kinnaird..... " "
Engr. P'g Sta., M. M. McMichael..... " "

Infiltration galleries in Raccoon River Valley; chemical, hypochlorite of lime.

Boilers, 2 hor. tubular 115-hp. ea. 180 lb., Oil City 1899, 4 hor. tubular 115-hp. ea. 140 lb. Murray 3-1902 & 1-1907; pumps, 1-6,000,000 gal. hor. comp. Worth. 1884, 1-6,000,000 hor. comp. c. & f. wh. Holly 1883, 1-8,000,000 gal. hor. comp. c. & f. wh. Holly 1902, 1-10,000,000 gal. hor. cross comp. c. & f. wh. Snow 1910, 1-15,000,000 gal. hor. centrifugal Kingsford 1910 d. con. to steam engine, 90-hp. vert. duplex; steam engine, 40-hp. Ball; pumping direct & to standpipe (1899) 530,000 gal.

Pipe, 177 mi. 4 to 20-in. c. i.; hyd. 1838, hose con. 2½-in. Holly, Chapman & Ludlow; valves, 1,237 r. h. opening Ludlow; meters, 17,000 Worth. Neptune, Hersey & National; av. daily cons. 6,141,000 gal.65%; serv. con. 18,000; ord. pres. 30 to 100 lb., fire pres. 120 lb.

Rates; flat, $4 year, bath $3, closet $3; meter, min. charge $1.50 quarter 450 cu. ft., 30c. 1,000 gal. max., 10c. min.

DE WITT, 1,508.

MUNICIPAL.

Supt., L. S. Harrington.....De Witt

Wells, 2 8-in. 250 to 254 ft. deep; near center business section.

Boilers, mech. stoking, steam; pumps, 1-35,000 gal. double act. c. & f. wh. American, 1-50,000 gal. American driven by elec. motor; steam engines, 80 & 120-hp. Corliss; pumping to elev. tanks (1893, 1914) 155,000 gal. Des Moines Bridge & Iron Co.

Hyd. 45, hose con. 2½-in.; valves, 20 r. & l. h. opening; meters, 25 Neptune; av. daily cons. 250,000 gal.; ord. pres. 30 lb.

Rates; flat, $6 year, bath $3, closet $3; meter, 30c. 1,000 gal. max., 25c. min.

DOWS, 892.

Comr., T. H. Larson.....Dows
" James Capellan..... "
Supt., J. M. Little..... "

Wells, 2, 8 to 10-in. 85 and 480 ft. deep; near center distribution; no purification.

Pumps, 1-50,000 gal. & 1-125,000 gal. Deming; driven by elec. motor, d. c.; elec. energy from Dows Elec. Lt. & Pwr. Co.; pumping to elevated tank 50,000 gal., wood and steel.

Pipe, 2 mi. 4 to 6-in.; hyd. 23, hose con. 2½-in. Rensselaer; valves, r. h. thd.; meters, 75 National; av. daily cons. 25,000 gal.; serv. con. 75; pres. ord. 50 lb., fire pres. 100 lb.

Rates: meter, 25c. 1000 gal.

DUBUQUE, 33,494.

MUNICIPAL. Office, City Hall, 13th & Iowa Sts.

Supt., B. F. Stedman.....Dubuque
Chmn. Trustees, Jos. P. Scanlan . "
Trustee, James Alderson..... "
Sec., Chas. Sass..... "

Wells, 2 12-in. 1,300 ft. deep, 27 6-in. 92 ft. deep; reservoirs, 2-1,650,000 gal.

Boilers, 2 fire-tube 100-hp. ea. 120 lb. Marshall 1899, 2 fire-tube 125-hp. ea. 120 lb. Marshall 1905, one water-tube 250-hp. Heine; pumps, 1-2,500,000 gal. tri. exp. duplex Smedley 1893, 1-2,500,000 gal. tri. exp. duplex Smedley 1896, 1-5,000,000 gal. comp. duplex c. & f. wh. Holly 1899, 1-4,000,000 gal. centrifugal Buffalo 1907 d. con., 1-1,080,000 gal. hor. triplex Deane 1899, 1-864,000 gal. centrifugal Buffalo 1908 d. con. to elec. motor; pumping direct & to standpipe.

Pipe, 50 mi. 4 to 20-in. c. i.; hyd. 381, hose con. 2½ & 4-in. Holly; valves, r. & l. h. opening; meters, 2,701; av. daily cons. 1,350,000 gal.; serv. 3,034; ord. pres. 23 to 146 lb.

DUNLAP, 1.155.

MUNICIPAL.

Supt., I. Siglin.....Dunlap

DURANT, 720.

MUNICIPAL.

Mayor, Ed. Denkmann.....Durant
Rec., Paul Samberg..... "
Supt., Ehler Reimers..... "

Wells, 6 ft. in diam. 60 ft. deep.

Pumps, 1-2,400,000 gal. F. M. driven by gasoline engine, 20-hp. F. M.; pumping to elevated tank, 65,000 gal., steel.

Pipe, 2 mi. 4 to 6 in. c. i.; hyd. 28, hose con. 2½-in.; valves, 10 r. h. thd. F. M.; meters, 130 Pittsburgh; av. daily cons. 12,000 gal.; serv. con. 30.

DYERSVILLE, 1,511.

MUNICIPAL.

City Clerk, H. B. Willenborg...Dyersville

DYSART, 906.

MUNICIPAL.

Supt., T. C. Sackett.....Dysart

Well, 6-in. 250 ft. deep; near center business section.

Elec. motor, 10-hp. 220 v. s. ph. 60 cys. Wagner 1914; pumping to elev. tank (1900) 60,000 gal. steel Des Moines Bridge & Iron Co.

Pipe, 3.25 mi. 4 to 8-in. iron; hyd. 24, hose con. 4-in. meter, 70; ord. pres. 48 to 54 lb., fire pres. 48 to 125 lb.

Rates; meter, $5 year 12,500 gal., 40c. 1,000 gal.

EAGLE GROVE, 3,387.

MUNICIPAL.

Supt., E. C. Jewett.....Eagle Grove
Town Clerk, Sma Middleton.. " "

Artesian wells, 52 ft. deep; near center distribution.

Boilers, 1 hor. 80-hp. Murray; hand stoking; pumps, 1-1,728,000 gal. Goulds; elec

motors, 660 kw. 3 ph. 2 cys. Westg.; elec. energy from local Lt., Ht. & Pwr. Co.; pumping to standpipe (1896), steel.

Pipe, 5 mi. 4 to 12-in.; hyd. 40, hose con. 2½-in. Clow; valves, 30 r. g. thd. Clow; meters, 290 Hersey and Neptune; av. daily cons. 50,000 gal.; serv. con. 320; ord. pres. 30 to 42 lb., fire pres. 125 to 175 lb.

Rates: flat, $5 year; meter, 30c. 100 cu. ft. max., 6c. min.

EARLING, 323.

MUNICIPAL.

Supt., J. H. Muenchrath.....Earling

Wells, 3, 6 ft in diam. 28 ft. deep; near center distribution; no purification.

Pumps, 1-33,600 gal. Myers driven by gasolene engine, 6-hp. International; pumping to elevated tank, 23,580 gal., wood.

Pipe, 0.6. mi. 4 to 12-in.; hyd. 6, hose con. 3-in. valves, r. h. thd.; meters, none; av. daily cons. 3000 gal.; serv. con.i5; ord. pres. 30 to 45 lb., fire pres. 45 lb.

Rates: flat, $5 year, bath & closet $10.

EARLVILLE, 552.

MUNICIPAL.

Supt., C. M. Rayburn.....Earlville

Impounding reservoir & well, 5-in. 175 ft. deep.

Elec. motor, 5-hp. 110 v. Ft. Wayne 1915; gasoline engine, 10-hp. F. M. 1903; elec. generators, 20 kva. Ft. Wayne; purchase energy from Earlville Municipal Lt. Plant!

Gravity distribution; pipe, 5 mi. 4 & 6-in. c. i.; hyd. 10, hose con. 3-in.; valves, 7 l. h. opening Rensselaer; meters, none; av. daily cons. 2,000 gal. 90%; serv. con. 52; ord. pres. 35 lb., fire pres. 40 lb.

Rates; flat, $6 year.

ELDON, 2,024.

MUNICIPAL.

Supt., C. A. Flint.....Eldon

Wells; 1½ mi. from center distribution.

Boilers, 2 hor. tubular 100-hp. Murray; hand stoking; pump, 1-480,000 gal. F. M.; pumping to reservoir, 140,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd.; 2., hose con. 2½-in. American; meters, 70 Buffalo and Pittsburgh; av. daily cons. 30,000 gal.; serv. con. 125; ord. pres. 10 to 60 lb., fire pres. same.

Rates; meter, 25c. 1000 gal.

ELDORA, 1,995.

MUNICIPAL.

City Engr., W. A. Cowles.....Eldora

ELKADER, 1,181.

MUNICIPAL.

Comr., C. C. Oelring.....Elkader
" John Ehrhart..... "
Supt. & Engr. P'g. Sta.,
Ross Richardson..... "

Wells, 2, 8 & 10-in. 180 ft. deep; no purification.

Pump driven by gasolene engine, 32-hp. F. M.; pumping to reservoir, 175,000 gal.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 35, Waterous; valves, 14 r. & l. h. thd. Eddy; meters, 200 National and Neptune; av. daily cons. 75,000 gal.; serv. con. 250; ord. pres. 80 to 100 lb., fire pres. same.

Rates: meter, 30c. 1000 gal. max., 12c. min.

ELLIOTT, 528.

MUNICIPAL.

Mayor, J. F. Meyers.....Elliott
Supt. & Engr. P'g. Sta., F. M. Casey "
Town Clerk, E. D. Hully..... "

Wells, tubular; at center distribution; no purification.

Pump, one triplex d. con. to gasolene engine; pumping to elev. tank (1914) 60,000 gal., steel.

Pipe, 0.2 mi. 4 to 12-in.; hyd. 5, hose con. 3-in.; mmeters, none.

ESTHERVILLE, 3,404.

MUNICIPAL.

Mayor, B. B. Anderson.....Estherville
City Clerk, N. B. Egbert..... "
Engr. P'g. Sta., A. W. Kirby.... "

Des Moines River and wells, 2, 15 ft. in diam. 32 ft. deep.

Pump driven by elec. motor, 75 kw. 220 v. 3 ph. 60 cys. Ft. Wayne; pumping to reservoir, 500,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 52, hose con. 2½-in.; meters, 300; serv. con. 300; ord. pres. 40 lb., fire pres. 100 to 125 lb.

Rates: all meter, 20c. 1000 gal.

EXIRA, 787.

MUNICIPAL.

City Clerk, George Carl.....Exira

FAIRBANKS, 618.

MUNICIPAL.

Mayor, Frank Burns.....Fairbanks

FAYETTE, 1,112.

MUNICIPAL LIGHT & WATERWORKS.

Mgr., W. I. Irwin.....Fayette
Engr. P'g Sta., John Irwin..... "

Boiler, 200-hp. Marshall; steam engine, 150-hp. F. & S.

FAIRFIELD, 4,970.

MUNICIPAL.

Supt., T. J. Griffith.....Fairfield
Cons. Engr., Hall & Adams..... "
Clerk Wtr. Dept., P. E. Black.... "

Impounding reservoirs, 2-84,000 gal.; 1½ mi. from center distribution; mechanical filters, 2-1,000,000 gal.; chemical, sulphate of alumina.

Boilers, 2 hor. 80-hp. ea. Kewanee; hand stoking; pumps, 1-100,000 gal., 2-500,000 gal., 2-750,000 gal. Deane and Blake; elec. motors, 100 v. 3 ph. 60 cys.; pumping to standpipe (1883), iron , and elev. tank, 150,000 gal.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 67, hose con. 2½-in. Ludlow; valves, 77 r. & l. h. thd. Ludlow and Eddy; meters, 500 Neptune; av. daily cons. 300,000 gal.; serv. con. 666; ord. pres. 35 lb., fire pres. 100 to 120 lb.

Rates: flat, $5 year, bath $3, closet $3; meter, 40c. 1000 gal. max., 15c. min.

FARMINGTON, 1,165.
MUNICIPAL.
Supt., L. C. Hoffman.....Farmington
Town Clerk, G. J. Beeson..... "
Des Moines River; no purification.
Boilers, 2 hor. tubular Murray and Kewanee; hand stoking; pumps, 1-500,000 gal.; pumping to reservoir, 206,000 gal.
Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 16, hose con 2½-in.; valves, 6; ord. pres. 80 lb., fire pres. same.

FONDA, 978.
MUNICIPAL.
Mayor, M. A. Hogan.....Fonda
Supt., Arthur R. Messenger..... "
Engr. P'g Sta., C. A. Conn..... "
Well, 4-in. 1,000 ft. deep; near center business section.
Gasoline engines, 2 15-hp. I. H. C.; pumping to elev. tank (1895) steel.
Meters, 100 Neptune; serv. con. 105.
Rates; meter, 35c. 1,000 gal. max., 8c. min.

FOREST CITY, 1,691.
MUNICIPAL.
Supt., J. O. Johnson.....Forest City
Artesian wells, 2, 4-in. 110 ft. deep; impounding reservoir, 50,000 gal.; near center distribution; no purification.
Pumps, 2-1,800,000 gal. Deming and Deane belted to gasolene engine, 25-hp. Lenox and elec. motors, 220 v. 3 ph. 60 cys. Minneapolis; pumping to standpipe (1894), steel.
Pipe, 3¼ mi. 4 to 12-in. c. i.; hyd. 26, hose con. 2½-in. Waterous; valves, 20 r. h. thd.; meters, Pittsburgh and Neptune; av. daily cons. 80,000 gal.; serv. con. 310; ord. pres. 50 to 60 lb., fire pres. 60 to 100 lb.
Rates: flat, $5 year, bath $2, closet $2; meters, 40c. 1000 gal. max.

FORT DODGE, 15,543.
MUNICIPAL.
Mayor, John S. Ford.....Fort Dodge
Wtr. Comr., E. W. Collins..... " "
City Clerk, W. L. Lang..... " "
Supt., John W. Pray..... " "
Wells, 5 3 to 15-in. 1,400 ft. deep; one mi. from center business section.
Boilers, 2 hor. 100-hp. 100 lb. Erie 1894; pumps, 1-1,500,000 gal. hor. comp. duplex Smedley 1900, 1-3,000,000 gal. hor. cross-comp. c. & f. wh. Hughes 1909; pumping to elev. tank (1896) 1,060,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 30 mi. 4 to 12-in. c. i.; hyd. 190, hose con. 2½-in. mostly Eddy; valves, 250 r. h. opening mostly Eddy; meters, 3,000 National & Hersey; av. daily cons. 700,000 gal. 60%; serv. con. 3,000; ord. pres. 100 lb., fire pres. 100 to 150 lb.
Rates; meter, 50c. 1,000 gal. max., 8½c. min.

FORT MADISON, 8,900.
FORT MADISON WATER CO. Office, Marquette Bldg.
Supt., J. G. Sutton.....Fort Madison

FREDERICKSBURG, 558.
MUNICIPAL.
Mayor, F. M. Potter.....Fredericksburg
Town Clerk, H. L. Keresen. "
Well.
Pump driven by gasolene engine, 35-hp. Bates and Edmonds; pumping to elevated tank, wood.
Pipe, one mi. 4 to 12-in. c. i.; hyd. 8, hose con. 3-in.; meters, 36 National; serv. con. 36.

GALVA, 357.
MUNICIPAL.
Supt., G. A. Clapsaddle.....Galva
Wells, 24; no purification.
Pump driven by 50-hp engine; pumping direct and to elevated tank.

GARNER, 1,028.
MUNICIPAL.
Mayor, F. E. Blackstone.....Garner
Chm. Comrs., D. A. Monlin..... "
Supt., John W. Peterson..... "
Well, 229 ft., near center distribution.
Pumps, 2-560,000 gal., Rumsey belted to elec. motors, 2, 10-hp. ea. 220 v. Westg.; pumping to standpipe (1900), steel and elev. tank, 60,000 gal.
Pipe, 1.2 mi. 4 to 12-in. c. i.; hyd. 28; hose con. 2½-in.; valves, 4 r. & l. h. thd.; meters, 36 Pittsburgh, Thompson and Neptune; av. daily cons. 30,000 gal.; serv. con. 140; ord. pres. 45 to 60 lb., fire pres. same.
Rates: flat, $5 year; meters, 40c. 1000 gal. max., 30c. min.

GILMAN, 430.
MUNICIPAL.
Mayor, J. A. Stansberry.....Gilman
Town Clerk, Wm. Green..... "
Supt., G. L. Clark..... "
Spring; 2 mi. from center distribution.
Pumping to standpipe (1912), steel.
Pipe, 12 mi. 4 to 12-in.; serv. con. 150; ord. pres. 40 lb., fire pres. same.

GLIDDEN, 850.
MUNICIPAL.
Supt., Samuel Schnepp.....Glidden
Wells, 135 ft. deep; near center distribution; no purification.
Pumps, 2 Goulds and Deming, belted to elec. motors, 2, 10-hp. ea. 220 v. 3 ph. 60 cys. Wagner; elec. energy from municipal electric plant; pumping to elevated tank.
Pipe, 4.7 mi. 4 to 12-in. c. i.; hyd. 10; meters, none; av. daily cons. 100,000 gal.; serv. con. 200; ord. pres. 20 to 50 lb., fire pres. 40 to 70 lb.

GLADBROOK, 869.
MUNICIPAL.
Engr. P'g Sta., Herman Gloe...Gladbrook

GLENWOOD, 4,052.
MUNICIPAL.
Comr., C. W. Edwards.....Glenwood

GOWRIE, 829.
MUNICIPAL.
Town Clerk, J. E. T. Johnson.....Gowrie

GREENFIELD, 1,379.
MUNICIPAL.
Mayor, Clarence Williams.....Greenfield
Supt., Fred Hill..... "
Wells; ½ mi. from center distribution.
Pumps, 1-216,000 gal. triplex Deane d. c. to elec. motor, 15 kw. 220 v. 3 ph. 60 cys. Ft. Wayne; umping to elev. tank, 70,000 gal.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 2½-in., valves, 12. r. h. thd. Pratt & Cady; meters, 110 Pittsburgh; av. daily cons. 6000 gal.; serv. con. 100; ord. pres. 45 lb., fire pres. 150 lb.

GRINNELL, 5,036.
MUNICIPAL.
Supt., W. A. Hendry.....Grinnell
Artesian wells, 2 6-in. 2,025 ft. deep.
Boilers, 2 hor. tubular 100-hp. Frost; hand stoking; pumps, 2-1,500,000 gal. F. M. & Knowles; pumping to standpipe (1894) brick.
Pipe, 15 mi. c. i.; hyd. 90, hose con. Matthews & Rensselaer; valves, 18 r. h. thd. Crane; meters, 1,050 Hersey & Neptune; av. daily cons. 275,000 gal.; serv.con. 1,150; ord. pres. 40 to 50 lb., fire pres. 110 to 125 lb.
Rates; flat, $2.50 6 mo.; meter, $3 6 mo., 40c. 1,000 gal. max., 30c. min.

GRISWOLD, 949.
MUNICIPAL.
City Clerk, D. H. Scott.....Griswold

GRUNDY CENTER, 1,354.
MUNICIPAL.
Mayor, C. E. Burler.....Grundy Center

GUTHRIE, 1,337.
MUNICIPAL.
Mgr. & Supt., C. T. Harvey.....Guthrie
Well; near center distribution; no purification.
Boilers, 2 tubular 80-hp. Murray; hand stoking; pumps, 2-1,152,000 gal. Medley; pumping to standpipe (1906), steel.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in.; meters, none; av. daily cons. 75,000 gal.; serv. con. 400; ord. pres. 80 to 110 lb., fire pres. 80 to 150 lb.

GUTTENBURG, 1,873.
MUNICIPAL.
City Clerk, A. J. Kappen.....Guttenberg

HAMBURG, 1,817.
MUNICIPAL.
Comr., Wirt Reid.....Hamburg
Cons. Engr., H. Gravencamp.... "
Supt. & Engr. P'g. Sta.,
M. H. Harris.....Hamburg
Wells, 14, 2-in. 25 ft. deep; near center distribution; no purification.
Boilers, 1 tubular 30-hp. F. M.; hand stoking; pumps, 1-216,000 gal. Platt, 1-216,000 gal. triplex Goulds; gasolene engine, 15-hp. International; pumping to reservoir, 200,000 gal.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. R. D. W.; valves, 16 r. g. thd. Ludlow; meters, 142 Buffalo and Keystone; av. daily cons. 55,000 gal.; serv. con. 180; ord. pres. 85 lb., fire pres. same.
Rates: flat, 50c. mo.; meter, 50c. 1000 gal. max., 20c. min.

HAMPTON, 2,617.
MUNICIPAL.
Supt., Levi Talhem.....Hampton

HARLAN, 2,570.
MUNICIPAL.
Supt., C. E. Lutton.....Harlan
Wells, 13, 6-in. 45 ft. deep; 1 mi. from center distribution; no purification.
Pumps, 2-432,000 & 576,000 gal. Goulds belted to gasoline engine, 20-hp. Nelson and elec. motors, 35-hp. 230 v. d. c. G. E.; elec. energy from local city lt. plant; pumping direct and to standpipe (1886), iron.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 53, hose con. 2½-in. R. D. W., Crane and Iowa; valves, 40 r. & l. h. thd. Crane and Iowa; meters, 250 Pittsburgh, Neptune and Gamon; av. daily cons. 125,000 gal.; serv. con. 435; ord. pres. 30 to 75 lb., fire pres. 30 to 125 lb.
Rates: flat, $8 year, bath $3, closet $3; meter, 30c. 1000 gal. max., 10c. min.

HARTLEY, 1,106.
MUNICIPAL.
City Clerk, R. T. Broders.....Hartley

HAWARDEN, 2,107.
MUNICIPAL.
Mayor, C. W. Keniston.....Hawarden
City Clerk, T. J. Reeves..... "
Supt., S. C. Green..... "
Wells; ¼ mi. from center distribution; no purification.
Boilers, 2 tubular 150-hp. Murray; hand stoking; pumps, 3-2,106,000 gal. Smedley and F. M.; pumping direct.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 4-in.; av. daily cons. 50,000 gal.; serv. con. 200; ord. pres. 80 lb., fire pres. 125 lb.

HEDRICK, 978.
MUNICIPAL.
Supt., I. N. Young.....Hedrick
Wells, 2 10-in. 185 to 334 ft. deep; near center business section.
Elec. motors, 2 5-hp. ea. 110 v. 3 ph.: pumping to elev. tank (1913) 50,000 gal. steel, Des Moines Bridge & Iron Co.
Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 23, hose con. 2½-in. Iowa & Knott; av. daily cons.

30,000 gal.; serv. con. 35; ord. pres. 150 lb., fire pres. same.
Rates; meter, 40c. 1,000 gal.

HOLSTEIN, 936.
MUNICIPAL.
Chmn. Comrs., Thode Hansen....Holstein
City Recorder, A. G. Markley.... "
Designing Engr., M. I. Evinger... "
Engr. P'g. Sta., George Ansell..... "
Artesian well, 2000 ft. deep; at center distribution; no purification.
Pumps driven by gasoline engines, 25-hp. F. M., 60-hp. Alamo; elec. motor, 18 and 50 kw. 2300 volts, 2 ph. 60 cys. Western; pumping to elev. tank, 55,000 gal., iron.
Pipe, 4.25 mi. 4 to 6-in. c. i.; hyd. 45, hose con. 2½-in.; average daily consumption 40,000 gal.; serv. con. 300; ord. pres. 30 to 45 lb., fire pres. 75 to 120 lb.
Rates: all meter, 40c. 1000 gal.

HOPKINTON, 797.
MUNICIPAL.
Comr., W. R. Reeve.....Hopkinton
" W. S. Beels..... "
Supt. & Town Clerk, C. L. Hill. "
Well.
Pump, driven by gasoline engine, 20-hp. F. M.; pumping direct and to elev. tank, 80,000 gal., wood.
Pipes, 4 mi. 4 to 12-in.; meters, 12 Pittsburgh; serv. con. 100; ord. pres. 55 lb.
Rate: meter, 40c. 1000 gal.

HUBBARD, 568.
MUNICIPAL.
Mayor, Gus Lage.....Hubbard

HUDSON, 372.
MUNICIPAL.
Mayor, R. H. Mueller.....Hudson
Chmn. Comr., B. M. Sweitzer..... "
Comr., K. McBridge..... "
" J. H. Axon..... "
Engr. P'g. Sta., Joseph Kusdas.... "
Well, 6-in. 150 ft. deep; near center distribution; no purification.
Pump, 1-64,800 gal. F. M. driven by elec. motor, 40 amp. 110 v. d. c. Peerless; elec. energy from munic. power plant; pumping to elev. rank, 67,500 gal., steel.
Pipe, ½ mi. 4 to 12-in. c. i.; hyd. 6, hose con. 2½-in. Bourbon; meters, 44 National; serv. con. 57; ord. pres. 35 to 40 lb., fire pres. 40 to 50 lb.
Rate: flat $5 year; meter, min. 40c. mo., 40c. 1000 gal.

HULL, 658.
MUNICIPAL.
Chmn. Comrs., Henry Beckman....Hull
Supt., John De Fries..... "
Clerk, E. C. Stevens..... "
Well, 6 to 10-in. 1256 ft. deep.
Boilers, 1 hor. 40-hp. Murray; hand stoking; pump, 1-28,800 gal. Cook; pumping to elev. tank, 40,000 gal., brick and wood.
Pipe, 0.5 mi. 4 to 12-in. c. i.; hyd. 5, hose con. 2½-in. Eddy; valves, 4 l. h. thd. Eddy; meters, 12 Neptune; av. daily cons. 1500 gal.; serv. con 12; ord. pres. 30 to 32 lb., fire pres. same.
Rates; meter, 30c. 1000 gal.

HUMBOLDT, 1,809.
MUNICIPAL.
Supt., J. H. Sheldon.....Humboldt

HUMESTOWN, 1,006.
MUNICIPAL.
Mayor, D. P. Goodrich.....Humestown
City Clerk, Fred M. Kyner.... "

IDA GROVE, 1,874.
MUNICIPAL.
Mayor, F. S. Brown.....Ida Grove
Chm. Comrs., John Barrett..... " "
Supt., P. O. Van Wagoner..... " "
Engr. P'g. Sta., T. Kephart..... " "
Wells, 4, 20 ft. in diam. 28 ft. deep; near center distribution; no purification.
Boilers, 2 hor. return tubular 50 & 75-hp. 65 lb. Globe and Erie; hand stoking; pumps, 2-400,000 & 200,000 gal. hor. comp. duplex Gardner 1908; pumping direct and to standpipe (1899), steel.
Pipe, 9.5 mi. 4 & 6-in. c. i.; hyd. 36, hose con. 2½-in.; valves, 29 Eddy 10; meters, 300 mostly Pittsburgh; av. daily cons. 110,000 gal.; serv. con. 325; ord. pres. 70 to 80 lb., fire pres. 125 lb.
Rates: meter, 20c. 1000 gal.

INDEPENDENCE, 3,517.
MUNICIPAL.
Supt., Geo. D. Warren.....Independence
Wells, 30, 3½-in. 40 ft. deep ½ mi. from center distribution.
Boilers, 3 hor. tubular 150-hp. Murray; hand stoking; pumps, 3-2,000,000 gal. Goulds; elec. motors, 2, 70-hp. 220 v. 2 ph. 60 cys. Wagner; pumping direct.
Pipes, 9.5 mi. 4 to 12-in. c. i.; hyd. 55, hose con. 2½-in. Ludlow; meters, 625 mostly Neptune; av. daily cons. 1,000,000 gal.; serv. con. 625; ord. pres. 50 to 60 lb., fire pres. 100 to 125 lb.
Rates: all meter, 25c. 1000 gal. max., 15c. min.

INDIANOLA, 3,283.
MUNICIPAL.
Mayor, J. W. Slocum.....Indianola
City Clerk, W. A. Graves..... "
Supt., C. C. Litzenberg..... "

INWOOD, 595.
MUNICIPAL.
Mayor, G. M. Anderson.....Inwood
City Clerk, Hugh Reimers..... "

IOWA CITY, 10,091.
IOWA CITY WATER CO.
Pres., W. A. Fry.....Iowa City
Sec., Robt. L. Thompson.....Muscatine
Supt., W. A. Hostetter..... "
Engr. P'g Sta., John Evers.....Iowa City
Iowa River & wells, 10 8-in. 160 ft. deep; ½ mi. from center business section; coagu-

lating basins, 2; slow sand filters, 2,000,000 gal. N. Y. C. Jewell.

Boilers, 3 hor. tubular 150-hp. 120 lb. Murray 1900, 1901 & 1912; hand stoking; pumps, 1-1,500,000 gal. comp. c. & f. wh. Holly 1883, 1-2,000,000 gal. comp. duplex d. act. Snow 1896, 1-2,000,000 gal. comp. c. & f. w. Allis-C. 1913, 2-2,000,000 gal. hor. Kingston 1911; air compress. Root 1911; pumping direct & to elev. tank, 84,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 20 mi. 4 to 20-in. c. i.; hyd. 222, hose con. 2½-in.; meters, 680 National, Neptune & Pittsburgh; av. daily cons. 1,500,000 gal.; serv. con. 1860; ord. pres. 64 to 70 lb., fire pres. 100 to 145 lb.

Rates; flat, $5 quarter, bath $3, closet $3; meter, $1 mo. 2,500 gal., 40c. 1,000 gal. max., 8c. min.

IOWA FALLS, 2,797.

MUNICIPAL.

Supt., B. S. Morgan.....Iowa Falls

Wells, 2 10-in. 270 ft. deep; near center distribution; no purification.

Boilers, 2 hor. tubular 75-hp. Indianapolis; hand stoking; pumps, 2-384,000 gal. ea. Keystone Driller; belted to steam engine; pumping direct & to standpipe (1892) 86,000 gal. steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Ludlow, Eddy & R. D. W.,; valves, 100 r. h. thd. Eddy; meters, 300 Pittsburgh & National; av. daily cons. 175,000 gal.; serv. con. 500; ord. pres. 40 to 55 lb., fire pres. same.

Rates; flat, $6 year; meter, 35c. 1,000 gal. max., 15c. min.

JEFFERSON, 2,477.

MUNICIPAL.

Comr., S. J. Sayers.....Jefferson
Engr. P'g Sta., Percy Gray..... "

Artesian wells, 2, 6 & 8-in. 2700 ft. deep; near center distribution; no purification; reservoir, 60,000 gal.

Pumps, 2-84,000 & 144,000 gal. Keystone; elec. motor, 15 kw. 550 v. d. c.; elec. energy from local plant; pumping to elev. tank, 90,000 gal. steel.

Pipes, 4.5 mi. 4 to 10-in. c. i.; hyd. 30, hose con. 3-in. Kupferle; valves, 17 r. h. thd. Iowa; meters, 425 mostly Pittsburgh; av. daily cons. 100,000 gal.; lord. pres. 55 lb., fire pres. 80 lb.

Rates: flat, min. $5 year; meter, min. charge $5 year, 40c. 1000 gal. max., 1½c. min.

JESUP, 697.

MUNICIPAL.

Comr., F. C. Walker.....Jesup
" H. B. Ham..... "
" H. J. Werling..... "
Supt., Monroe H. Houser..... "

Artesian well; oil engine, 12-hp. F. M. 1913; pumping to elev. tank (1913) 40,000 gal. steel, Des Moines Bringe & Iron Co.

Hyd. 10; meters, 50 National.

Rates; flat, $5 year; meter, 40c. 1,000 gal.

JEWELL, 941.

MUNICIPAL.

Comr., A. Alexander.....Jewell
" C. A. Pfund..... "
" T. Jacobson..... "
Vil. Clerk, M. J. Severson..... "

Artesian well, 8-in. 1,000 ft. deep; reservoir, 16x20-ft.; no purification.

Pumps, 1-360,000 gal. hor. comp. d. act. F. M. 1914 driven by oil engines, 25-hp. F. M. 1914; air compress. F. M. 1914; pumping to tanks, 2-32,000 gal.

Pipe, 5 mi. 8-in. c. i.; hyd. 14, hose con. 4-in. various; valves, 2; meters, 200 various; av. daily cons. 60,000 gal. 90%; ord. pres. 60 to 100 lb., fire pres. same.

Rates; meter, 30c. 1,000 gal.

KEOKUK, 14,008.

KEOKUK WATERWORKS CO. (Controlled by American Water Works & Electric Company, 50 Broad St., New York, N. Y.)

Pres., G. E. Hoffmaster..New York, N. Y.
V. Pres., J. C. Adams.... " " " "
Sec., F. R. Berry..... " " " "
Treas., B. C. Hovis..... " " " "
Supt., N. G. Juengst.....Keokuk

Mississippi River; settling basin, 200,000 gal.; mech. filters, 3,000,000 gal.; chemical, hypochlorite of lime & sulphate of alumina.

Boilers, 3 return tubular 250-hp. Buckeye & Michaelman; hand stoking; pumps, 1-1,000,000 gal. comp. Deane, 1-2,125,000 gal. comp. Deane, 1-1,500,000 gal. Holly, 1-4,000,000 gal.; pumping direct & to reservoir.

Pipe, 22.25 mi. 4 to 30-in. c. i.; hyd. 161; meters, 1,778 various; av. daily cons. 1,162,641 gal.; ord. pres. 50 to 70 lb., fire pres. 100 to 110 lb.

KEOSAUQUA, 1,009.

MUNICIPAL.

Mayor, C. I. Manning.....Keosauqua
Town Treas., J. Lester Therme. "
Sec., E. B. Kittle..... "
Engr. P'g Sta.,
J. F. Schreckengost..... "
Des Moines River.

Boilers, 2 fire tube 50-hp. ea. 100 lb. McDaniels 1898; hand stoking; pumps, 1-200,000 gal. hor. comp. Deane 1898; elec. motor, 125 kw. 220 v. d. c. C. & C. Elec. Co. 1911; pumping direct & to elev. tank (1898) 63,000 gal. steel.

Pipe, ¾-in. to 8-in. w. & c. i.; hyd. 14, hose con. 2½-in.; av. daily cons. 12,000 gal.; serv. con. 60; ord. pres. 30 to 65 lb., fire pres. same.

Rates; flat, $6 year, bath $1.50, closet $1.50.

KEYSTONE, 412.

MUNICIPAL.

Comr., H. Miller.....Keystone

Comr., P. F. Seeck.....Keystone
" W. A. Donnan..... "
Supt. & Engr. P'g. Sta.,
J. A. Koppeen..... "
Town Clerk, Geo. Harder..... "

Artesian wells, 6 ft. in diam. 66 ft. deep reducing to 6-in. 62 ft. deep; near center distribution; no purification.

Boiler, 1, 16-hp. International; mechanical stoker, International; pumps, 1-100,000 gal. driven by gasolene engine, 16-hp.; pumping to reservoir, 38,000 gal. and standpipe (1894), wood.

Pipe, 6 & 8-in. c. i.; hyd. 13, hose con. 3-in. National; valves, 12; meters, 23 Pittsburgh and Standard; av. daily cons. 75,000 gal.; serv. con. 28; ord. pres. 20 to 40 lb., fire pres. same.

Rates: all meter, 45c. 1000 gal.

KLEMME, 306.

MUNICIPAL.

Mayor, E. G. Ell.....Klemme
Town Clerk, N. L. Palmer..... "
Supt., Lew Lewis..... "
Engr. P'g. Sta., C. L. Blumer..... "

Deep wells.

Pumps driven by gasolene engine,12-hp. F. M.; pumping to elev. tank.

Hyd. 4, hose con. 2-in.; meters, 15; ord. pres. 40 to 70 lb., fire pres. same.

KNOXVILLE, 3,190.

MUNICIPAL.

Supt., W. B. Savage.....Knoxville
Chemist, C. N. Kinney.....Des Moines

Impounding reservoir, 500,000 gal., river channel & wells.

Pumps, 1-504,000 gal. steam Blake 1887, 1-1,080,000 gal. Goulds 1894, d. con. to elec. motors, 4 a. c. 25 & 40-hp. 2,200 v. 3 ph. 60 cys. G. E. 1914 & 1915; purchase energy from Marion County Elec. Co.; pumping to standpipe (1887) 100,000 gal.

Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 52, hose con. 2½-in. Eddy, Galvin & Ludlow; valves, 27 r. h. opening Eddy, Galvin & Ludlow; meters, 304 Buffalo, Hersey, National, Neptune, Pittsburgh & Worth. 60%; serv. con. 446; ord. pres. 40 to 50 lb., fire pres. 80 to 100 lb.

Rates; meter, $1.50 quarter 3,750 gal., 40c. 1,000 gal. max., 10c. min.

LAKE CITY, 2,043.

MUNICIPAL.

Chmn. Comrs., Roy Crawford...Lake City

LAMONI, 1,541.

MUNICIPAL.

City Clerk, Jas. T. Jones.....Lamoni

LANSING, 1,542.

MUNICIPAL.

Sec., N. A. Nelson..... Lansing
Supt. & Engr. P'g Sta., C. F. Rich. "

Wells, 2 6-in. 700 to 800- ft. deep; near center business section.

Boiler, 45-hp. 95 lb. Dayton 1903; hand stoking; pumps, 1-200,000 gal. hor. comp. d. act. Sillsby 1903, 1-100,000 gal. vert. triplex Goulds 1911 belted to elec. motor, 10-hp. G. E. 1911; purchase energy from Interstate Power Co.; pumping to reservoir, 15,000 gal.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 19, hose con. 2½-in. Ludlow; valves, l. h. opening various; meters, 120 Neptune & Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 123; ord. pres. 75 to 95 lb., fire pres. 80 to 100 lb.

Rates; meter, $1.50 quarter 2,500 gal., 40c. 1,000 gal. max., 10c. min.

LA PORTE CITY, 1,233.

LA PORTE PUBLIC UTILITY CO.

Pres., W. P. Mayer.....La Porte
Sec., Roy E. Ashley..... " "
Mgr., R. H. Wagner..... " "
Engr. P'g. Sta., Harry Shaffer.... " "

Well, 30 ft. in diam. 35 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 hor. tubular 80-hp. Murray; hand stoking; pumps, 2 driven by steam engine, Buffalo; pumping to standpipe and elev. tank 50,000 gal. steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 31, hose con. 2½-in. Eddy; meters, 71 Neptune; av. daily cons. 750,000 gal.; serv. con. 221; ord. pres. 45 lb., fire pres. 100 lb.

Rates: meter, 40c. 1000 gal.

LATIMER, 378.

MUNICIPAL.

Mayor, M. P. Johnson.....Latimer
Supt., Ole Christenson..... "

Deep well.

Pumps, 1-25,200 gal. driven by gasolene engine, 20-hp. Waterloo; pumping to tank, 8x36 ft.

Hyd. 7, hose con. 2½-in.; valves, r. h. thd.; meters, 40 National; serv. con. 40; ord. pres. 35 to 70 lb., fire pres., 75 lb.

LAURENS, 817.

Supt., Mr. Shaner.....Laurens
Town Clerk, R. V. Neville..... "

Wells; near center distribution.

Pumps, 1-14,000 gal. driven by elec. motor, 7½ kw. 220 v. s. ph. 60 cys. Wagner; pumping to elev. tank, 70,000 gal., wood.

Hyd. 12; valves, 5; meters, Neptune; av. daily cons. 8500 gal.; ord. pres. 43 lb.

LAWLER, 601.

MUNICIPAL.

Comr., E. F. Canty.....Lawler
" C. M. Parker..... "
" I. Miller..... "
Town Clerk, H. L. Hettler..... "
Supt., O. B. Taylor..... "
Engr. P'g Sta., S. Sadler..... "

Well, 6-in. 160 ft. deep; elec. motor, 7½-hp. 220 v. 1914; gasoline engine, 8-hp. I. H. C. 1908 oil engine, 50-hp.Alamo 1914; pumping to elev. tank (1895) 38,000 gal. wood.

Hyd. 50, hose con. 4-in.; av. dialy cons. 3,800 gal.; serv. con. 80.

Rates; flat, $4 year, bath $2, closet $2; meter, 40c. 1,000 gal.

LE MARS, 4,157.
LE MARS CITY WATER & LIGHT CO.
Pres. & Mgr., M. Shafer.....Le Mars
Sec. & Treas., J. F. Knorr..... " "
Engr. P'g Sta., A. W. Stevens..... " "
Boiler, 500-hp. Murray; steam engine, 275-hp.

LENOX, 1,274.
MUNICIPAL.
Mayor, T. F. Armstrong.....Lenox

LEON, 1,991.
MUNICIPAL.
Chmn. Comrs. & Supt., J. M. Gardner. Leon
Comr., W. Cash..... "
Well, 7-in. 765 ft. deep; at center distribution; reservoir, 20,000 gal.; no purification.
Air compressor, Ingersoll-Rand driven by elec. motors, 2 10 & 50-hp. 220 v. 60 cys. G. E.; pumping to elev. tank, 70,000 gal., steel.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 95, hose con. 3-in. Iowa; valves, 70 r. h. thd.; meters, 150 mostly Pittsburgh; av. daily cons. 30,000 gal.; serv. con. 150; ord. pres. 60 lb.
Rates: meter, min. charge $4.80 year, 40c. 1000 gal.

LEWIS, 603.
MUNICIPAL.
Supt., E. A. Smart.....Lewis

LIVERMORE, 578.
MUNICIPAL.
Town Clerk, W. M. Smith.....Livermore
Wells, near center distribution; no purification.
Pumps, driven by gasolene engine, 12-hp.; pumping to elev. tank, 30,000 gal., wood.
Pipe, 3 mi. 4-in.; hyd. 20; av. daily cons. 4000 gal.; ord. pres. 43 lb.
Rates: meter, 35c. 1000 gal.

LOGAN, 1,453.
MUNICIPAL.
Mayor & Supt., J. C. Milliamn.....Logan
Cons. Engr.,
H. E. Henningson.....Omaha, Neb.
Ch. Engr. P'g. Sta., E. M. Miller...Logan
Artesian wells, 2 4 & 6-in. 850 & 940 ft. deep; near center distribution; reservoir, 50,000 gal.; no purification.
Pumps, 2-288,000 gal. Deane driven by gasolene and oil engine, 2, 40-hp. Alamo; pumping to elev. tanks, 112,000 gal., steel.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 36, hose con. 2¾-in.; meters, 90 various; av. daily cons. 75,000 gal.; serv. con. 225; ord. pres. 120 lb., fire pres. same.
Rates: flat, min. $5 year; meter, 25c. 1000 gal. max., 20c. min.

MALVERN, 1,154.
MUNICIPAL.
Mayor, D. E. Whitfield.....Malvern
Rec., S. J. Clark..... "

MANCHESTER, 2,758.
MUNICIPAL.
Chmn. Comrs.
D. F. Hennessey.....Manchester
Comr., E. S. Cowles..... "
" C. J. Hockaday..... "
Supt., T. Wilson..... "
Engr. P'g Sta., V. L. Coleard... "
Well, 8-in. 1,600 to 1,800-ft. deep; ¼ mi. from center business section.
Boilers, 2 hor. 40-hp. 90 lb. Erie 1890; hand stoking; pumps, 1-384,000 gal. vert. simple d. act. Keystone 1897, 2-432,000 gal. hor. comp. d. act. Smedley 1890, driven by steam engine, 6-hp. vert.; pumping to standpipe (1890) 120,000 gal.
Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 53, hose con. 2½-in. Eddy, Kupferle & Chapman; valves, 25; meters, 550 Pittsburgh; av. daily cons. 150,000 gal. 25%; ord. pres. 40 to 58 lb., fire pres. 80 to 110 lb.
Rates; meter, $1.50 quarter 3,750 gal., 40c. 1,000 gal. max., 15c. min.

MANILLA, 875.
MUNICIPAL.
Supt., A. H. Collier.....Manilla
Wells, 2 6-in. 70 ft. deep; near center business seection.
Pumps, 2-15,000 gal. ea. vert. simple Westg. 1915 belted to elec. motor, 15-hp. 110 v.; pumping to elev. tank (1909) 80,000 gal. steel, Des Moines Bridge & Iron Co.
Pipe, 3 mi. 4 & 6-in. c. i. Kupferle; valves 6 r. h. opening; meters, 28 Neptune, Buffalo & Pittsburgh; av. daily cons. 12,000 gal. 50%; serv. con. 85; ord. pres. 60 to 80 lb., fire pres. same.
Rates; flat, $7 year, bath $1.50, closet $2; meter, 40c. 1,000 gal. max., 20c. min.

MANLY, 346.
MUNICIPAL.
Mayor, A. Dohel.....Manly
Town Clerk, J. F. Schulte..... "
Supt., Elmer Dilts..... "
Well, at center distribution.
Pump driven by elec. motor, 15 kw. 3 ph. 60 cys.; elec. energy from Mason City; pumping to elev. tank 50,000 gal., steel.
Pipe, 3 mi. 4 to 12-in. Universal; hyd. 12; meter, none; serv. con. 100; ord. pres. 45 lb., fire pres. same.

MANNING, 1,434.
MUNICIPAL.
Supt., P. H. Jones.....Manning
Wells, 35 4-in. 40 ft. deep; ¼ mi. from center business section.
Boilers, 2 hor. 150-hp. 135 lb. Murray 1910; hand stoking; pumps, 1-360,000 gal. hor. simple Platt 1907, 1-158,400 gal. hor. triplex Westg. 1914, belted to elec motor, 20-hp.22 v. Westg. 1914; purchase energy from Manning Elec. Light Co.; pumping to elev. tank, 60,000 gal. steel.
Pipe, 6 mi. c. i.; hyd. 70, hose con. 2½-in.; valves, 40 l. h. opening Crane; meters, 300

Neptune; av. daily cons. 80,000 ord. pres. 63 lb.

Rates; flat, $3 quarter, bath $1.50, closet $1.50; meter, 30c. 1,000 gal. max., 10c. min.

MANSON, 1,236.

MUNICIPAL.

Supt. & Engr. P'g. Sta., Sam'l Wise. Manson

Wells, 12-in. 1285 ft. deep; 2 mi. from center distribution.

Pumps, 1-432,000 gal. triplex National; air compressors, 1; gasolene engine, 29-hp. Middletown; elec. motors, 2 15-hp. ea. 220 v. d. c. Colonial; elec. energy from local light plant; pumping direct.

Hyd. 30; hose con. 3-in.; valves, 12 r. h. thd. Mueller; meters, 250 Buffalo and Hersey; av. daily cons. 75,000 gal.; serv. con. 307; ord. pres. 40 to 70 lb.

MAPLETON, 1,100.

MUNICIPAL.

Mayor, C. L. Chapman.....Mapleton
Comr., C. F. Griffin..... "
" E. P. McVicker..... "
" H. Thompson..... "
Town Clerk, G. G. Harris..... "

Wells, 12 20 to 30 ft. deep; ¼ mi. from center distribution.

Pumps, 396,000 gal. Deane driven by gasoline engine, 35-hp. Alamo; pumping to elev. tank, 70,000 gal. steel.

Pipe, 3.5 mi. 4 to 8-in. c. i.; hyd. 21, hose con. 2½-in. Kupferle & American; meters, 140 Neptune, National & Pittsburgh; av. daily cons. 116,000 gal.; serv. con. 140; ord. pres. 55 to 85 lb., fire pres. same.

Rates; meter, 25c. 1,000 gal.

MAQUOKETA, 3,570.

MUNICIPAL.

Mayor, S. W. Myatt.....Maquoketa
Chmn. Comrs., H. A. Meyer... "
Comr., H. E. Mahoney..... "
Supt. & Engr. P'g. Sta.,
G. O. Moorse..... "
Cons. Engr., G. C. Morgan....Chicago, Ill.
Chemist, Iowa State College....Iowa City

Wells, 22.5 ft. in diam. 30 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 hor. tubular 70-hp ea. Kewanee; hand stoking; pumps, 2-3,000,000 gal. d. act. c. & f. wh. L-D-G. and Worth.; pumping to standpipe, steel.

Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 112; hose con. 2½-in. Ludlow; valves, 76 l. h. thd. Ludlow; meters, 1200 National and Pittsburgh; av. daily cons. 250,000 gal.; serv. con. 1200; ord. pres. 45 to 84 lb., fire pres. 100 to 150 lb.

Rates: meter, min. charge $6 year,30,000 gal., 10c. 1000 gal.

MARATHON, 532.

MUNICIPAL.

Supt., C. A. Bisby.....Marathon

Artesian well, 165 ft. deep; 1½ mi. from center distribution.

Pump, driven by gasoline engine, 20-hp. Waterloo.

Hyd. 7, hose con. 3-in.; av. daily cons. 4000 gal.; serv. con. 60; ord. pres. 40 to 70 lb., fire pres. same.

MARBLE ROCK, 480.

MUNICIPAL.

Mayor, F. E. Gates.....Marble Rock
Clerk, H. C. Dorland..... " "
Supt. & Engr., P'g. Sta.,
Geo. W. Gates..... " "

Shell Rock River; ½ mi. from center distribution; no purification.

Pumps, F. M. belted to elec. motor, 10-hp. 110 v. 60 cys. Westg.; pumping to elev. tank (1900), 15,000 gal, wood.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 10, hose con. 3½-in.; meters, none; av. daily cons. 15,000 gal.; serv. con. 100; ord. pres. 44 to 54 lb., fire pres. same.

MARCUS, 896.

MARCUS WATER WORKS ASS'N. (Privately owned.)

Pres., J. M. Jackson.....Marcus
V. Pres., Louis Lund..... "
Sec., Treas. & Gen. Mgr., J. W. Field "

Wells, 3 open 10 ft. in diameter 20 to 25 ft. deep; ½ mi. from center business section; gasoline engines, 2 F. M. 1900; pumping to elev. tank (1895) 45,000 gal. wood.

Pipe, 1.5 mi. 4 & 6-in.; hyd. 16, hose con. 3-in.; meters, 50 Buffalo, National & Neptune; av. daily cons. 12,000 gal.; serv. con. 80; ord. pres. 35 to 42 lb., fire pres. same.

Rates; flat, $2.25 quarter, closet $1.10; meter, 45c. 100 cu. ft. max., 22.5c. min.

MARENGO, 1,786.

MUNICIPAL.

Supt., J. C. Baker.....Marengo

MARION, 4,400.

MARION WATER CO.

Pres., G. M. Tame.....Marion
Sec. & Treas., Robt Smyth..... "
Mgr. & Supt., R. G. Tams..... "

Springs, 4, 1½ mi. from center distribution.

Boilers, 2, 60-hp.; hand stoking; pumps, 3; elec. motors, 2, 220 v. 2 ph. 60 cys. Westg.; elec. energy from Iowa Ry. & Lt. Co.; pumping direct.

Hyd. 72, hose con. 3-in.; meters, 900 Neptune; serv. con. 1400; ord. pres. 65 lb., fire pres. 120 lb.

MARSHALLTOWN, 13,374.

MUNICIPAL. Office, City Hall.

Supt., Dorr L. Lamb.....Marshalltown

River & wells, 51 6-in. 37.5 ft.deep.

Boilers, 2 hor. return tubular 90 lb. Shorthill, one hor. return tubular 90 lb. Murray; pumps, 1-hor. comp. duplex Gordon 1894, 1-hor. comp. duplex Gordon 1890, 1-triplex Worth. 1900, 1-triplex Deming 1902; pumping to reservoir, 60,000 gal. concrete & elev. tank, 120,000 gal. steel.

Pipe, 37.1 mi. 2 to 24-in. c. & gal. i.; hhyd. 303; valves, 364; av. daily cons. 1,595,000 gal.; serv. con. 2,798; ord. pres. 80 lb., fire pres. 120 lb.

Rates; meter, min. charge $4 year 3,000 gal., 40c. 1,000 gal. max., 7.5c. min.

MASON CITY, 11,230.

MUNICIPAL.

Mayor, John Stanton.....Mason City
Comr., W. E. Miller..... " "
" H. E. Stanbery..... " "
Supt., W. A. Judd..... " "

Wells, 9, 10 to 20-in. 600 to 1200 ft. deep; near center distribution.

Boilers, 3 fire-tube 400-hp. 100 lb. Frost, Atlas and Murray; hand stoking; pumps, 1-2,000,000 gal. hor comp. duplex c. & f. wh.. L-D-G 1904, 1-3,000,000 gal. hor. comp. duplex c. & f. wh. Allis C. 1911, 1-338,000 gal. deep-well Luitweiler 1911, 2-1,728,000 gal centrifugal American 1912 & 1913; elec. motors, 1, 15-hp. 220 v. 3 ph. 60 cys. G. E.; 1, 50-hp. 2300 v. 3 ph. 60 cys. G. E.; 1, 100-hp. 2300 v. 3 ph. 60 cys. G. E.; elec. energy from Peoples' Gas & Elec. Co.; pumping direct.

Pipe, 31 mi. 4 to 12-in. c. i.; hyd. 224, hose con. 2½-in. Ludlow; valves, 320 l. h. opening; meters, 2300 National, Pittsburg, Neptune and Badger; av. daily cons. 900,000 gal.; serv. con. 2300 ;ord. pres. 40 to 70 lb., fire pres. 80 to 100 lb.

Rates: all meter, 40c. 1000 gal. max., 10c. min.

MAXWELL, 755.

MUNICIPAL.

Chmn. Comrs., T. B. Smeltzer....Maxwell
Supt. & Engr. P'g Sta., W. J. Cure. "

Well 12-in. 16 ft. deep; near center business section; no purification.

Pumps, Myers 1912 driven by elec. motor, 10-hp. 220 v. 3 ph. G. E. 1914; pumping direct & to elev. tank (1903) wood, Des Moines Bridge & Iron Co.

Pipe, one mi. 6-in. iron; hyd. 13, hose con. 2½-in.; valves, 2 l. h. opening; av. daily cons. 7,800 gal. 75%; serv. con. 30; ord. pres. 45 lb.

Rates; flat, $5 year, bath $3, closet $3.

McGREGOR, 1,259.

MUNICIPAL.

Mgr., G. S. Donaldson.....McGregor

Artesian well, 12-in. 600 ft. deep; near center distribution; no purification.

Pumps, 1-334,000 gal. L-D-G driven by elec. motor 30 kw. 220 v. 3 ph. 60 cys. F. M.; elec. energy from McGregor Elec. Lt. & Pwr. Co.; pumping to reservoir.

Hyd. 20, hose con 4-in.; meters, various; av. daily cons. 70,000 gal.; serv. con. 150; ord. pres. 90 to 110 lb., fire pres. same.

Rates: 40c. 1000 gal.

MECHANICSVILLE, 817.

MUNICIPAL.

Supt. J. L. Wilson.....Mechanicsville
Engr., P'g Sta., C. Young... "

Well, 6-in. 288 ft. deep; near center business section.

Pumps, one vert. duplex F. M. 1902 d. con. to gasoline engine; pumping to elev. tank (1902) wood.

Pipe, 3 mi. 4 to 6-in. c. i.; hyd. 31, hose con. 2½-in. Rensselaer; valves, 11 Rensselaer; meters, 90 Neptune & Buffalo; ord. pres. 45 to 55 lb., fire pres. same.

Rates; meter, $1.25 quarter, 30c. 1,000 gal.

MEDIAPOLIS, 858.

MUNICIPAL.

Mayor, J. H. Scott.....Mediapolis
Supt., James Allison..... "

Well, 6-in. 54 ft. deep; near center distribution; no purification.

Pumps, 1-28,800 gal. d. con. to gasolene engine, 2, 8 & 12-hp.; pumping to air pressure tank.

Hyd. 20, hose con. 2½-in.; serv. con. 24; ord. pres. 30 to 50 lb., fire pres. 80 to 90 lb.

Rates: flat, 75c. mo.; meter, min. charge 75c. 2000 gal.

MISSOURI VALLEY, 3,187.

MUNICIPAL.

Supt., S. R. Williams.....Missouri Valley
Engr. P'g. Sta.,
Jepps Thompson..... " "

Wells, 6, 6 & 10-in. 85 ft. deep; at center distribution; no purification.

Boilers, 2 hor. tubular 80-hp.; hand stoking; pumps, 1-1,500,000 gal. Platt, 1-750,000 gal. Smedley; pumping to reservoir, 350,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 62, hose con. 2½-in. Ludlow; meters, 70 Thompson, Gamon and Pittsburgh; av. daily cons. 225,000 gal.; serv. con. 600; ord. pres. 50 to 100 lb., fire pres. same.

Rates: meter, min. charge $5 year, 35c 1000 gal. max., 12.5c. min.

MONONA, 792.

MUNICIPAL.

Mayor, Geo. H. Otis.....Monona

MONTICELLO, 2,043.

MUNICIPAL.

Supt., H. S. Lee.....Monticello

Wells 2 8 to 15-in. 200 ft. deep; near center business section.

Pumps, 1-648,000 gal. hor. duplex d. act. Prescott; elec. motor, 35-hp. 220 v. 3 ph. 60 cys. G. E. 1914; pumping to reservoir, 550,000 gal.

Hyd., hose con. 2½-in.; valves, mostly r. h. opening; meters, 550 Neptune; av. daily cons. 125,000 gal.; serv. con. 550; ord. pres. 15 to 55 lb.

Rates; meter, $5 year 10,000 gal., 50c. 1,000 gal. max., 10c. min.

MONTEZUMA, 1,172.

MUNICIPAL.

Mayor, G. W. Hawkins.....Montezuma

MOUNT AYR, 1,646.
MUNICIPAL.
Supt., A. R. Kinney.....Mount Ayr

MOUNT PLEASANT, 3,874.
MUNICIPAL.
Supt., T. W. McMillan.....Mt. Pleasant
Deep well; 1 mi. from center distribution; reservoir, 200,000 gal.
Pumps, 3-2,440,000 gal. 2 triplex Goulds and 1 Worth. driven by elec. motors, 85-hp. 220 & 2300 v. 3 ph. 60 cys. Westg. and G. E.; elec. energy from local city plant; pumping to standpipe (1884), iron.
Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in. Ludlow and Eddy; valves, 36 l. h. thd. Ludlow and Eddy; meters, 475 Neptune; av. daily cons. 5000 gal.; ord. pres. 35 lb., fire pres. 100 lb.
Rates: meter, 50c. 1000 gal. max., 20c. min.

MOUNT VERNON, 1,532.
MUNICIPAL.
Supt., W. V. Chambers.....Mt. Vernon

MUSCATINE, 16,178.
MUNICIPAL.
Pres. Comrs., W. L. Roach.....Muscatine
Comr., P. R. Fitzgerald..... "
Supt., Wm. Molia..... "
Cons. Engr., W. Kiersted,
540 Midland Bldg....Kansas City, Mo.
Chemist, E. Smith.....Muscatine
Wells, 14, 6-in. 50 ft. deep; 2 mi. from center distribution; impounding reservoir, 2-4,500,000 gal.; no purification.
Boilers, 2 hor. return tubular 150-hp. ea. 145 lb. Freeman 1905; hand stoking; pumps, 1-3,000,000 gal. hor. comp. duplex c. & f. wh. Holly 1905, 1-3,000,000 gal. power triplex Worth. 1905; pumpint to reservoir above and elev. tank (1913), 200,00 gal.
Pipe, 38 mi. 6 to 16-in. c. i.; hyd. 385, hose con 2½-in. Ludlow, R. D. W. and Chapman; valves, 442 r. h. thd. Ludlow; meters, 250; av. daily cons. 2,000,000 gal.; serv. con. 3000; ord. pres. 10 to 90 lb., fire pres. 80 to 150 lb.
Rates: meter, min. charge $1.00 mo. 35c. 1000 gal. max., 6c. min.

NASHUA, 1,102.
MUNICIPAL.
Supt., Henry Noble.....Nashua

NEVADA, 2,138.
MUNICIPAL.
Chmn. Comrs., M. C. Allen.....Nevada
Comr., C. H. Case..... "
Town Clerk, R. A. Davis..... "
Supt., Sam Steigerwalt..... "
Well, 8-in. 1,000 ft. deep; near center business section; no purification.
Pumps, 1-120,000 gal. vert. double act. Keystone 1908, 1-240,000 gal. vert. triplex Goulds, belted to elec. motor; purchase energy from Iowa Ry. & Lt. Co.; pumping to elev. tank 100,000 gal. wood.
Pipe, 4.5. mi. 4 to 8-in. c. i.; hyd. 55, hose con. 2½-in. Eddy; valves, 20 r. & l. h. opening; meters, 120 various; av. daily cons. 50,000 gal. 85%; serv. con 100; ord. pres. 45 to 55 lb., fire pres. same.
Rates; meter, min. charge 80c. quarter 2,000 gal., 40c. 1,000 gal. max., 20c. min.

NEW HAMPTON, 2,275.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Mgr., F. B. Strike.....New Hampton
Supt. & Engr. P'g Sta.,
E. F. Matzke..... " "
Boiler, 300-hp. Hawkes; steam engine, 250-hp. Ideal.

NEW LONDON, 1,144.
MUNICIPAL.
Supt., Frank Suvak.....New London
Engr. P'g Sta., J. O. Bell..... " "
Well, 8-in. 284 ft. deep; near center business section.
Pumps, 1-20,000 gal. vert. single d. act. Rumsey 1914 driven; elec. motor, a. c. 10 kw. 15-hp. 220 v. 3 ph. 60 cys. Westg. 1914; pumping to elev. tank, 50,000 gal.
Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 38, hose con. 3-in. Iowa; valves, 15 r. h. opening Iowa; meters, 60 Gamon; av. daily cons. 5,000 gal.; serv. con. 53.
Rates; meter, 50c. mo. 1,250 gal., 40c. 1,000 gal.

NEW SHARON, 1,122.
MUNICIPAL.
City Clerk, A. J. May.....New Sharon

NEWTON, 4,616.
MUNICIPAL.
Supt., C. O'Leary.....Newton
Wells, 8, 8-in. 45 ft. deep; 6 mi. from center distribution.
Boilers, 2 tubular 80-hp. Murray; hand stoking; pumps, 2-360,000 gal. Snow; pumping to elev. tank, 2-175,000 gal.
Hyd. 100, hose con. 2½-in. Eddy; valves, 29 r. h. thd. Eddy; meters, 1000: av. daily cons. 400,000 gal.; serv. con. 1000; ord. pres. 56 lb., fire pres. 125 lb.
Rates: all meter, min. charge $1.50 quarter, 25c. 100 cu. ft. max., 15c. min.

NORA SPRINGS, 985.
MUNICIPAL.
Supt., John Scheffel.....Nora Springs
Mayor, C. A. Coon..... " "
Clerk, F. W. Schmidt..... " "

NORTHWOOD, 1,364.
MUNICIPAL.
Mayor, G. E. Whitcomb.....Northwood
Comr., T. O. Lund..... "
" J. K. Ofsthus..... "
" H. P. Stehm..... "
City Clerk, J. E. Amundson.... "
Well, 10-in. 68 ft. deep.
Pump, Goulds belted to elec. motor, 240 kw.; elec. energy from Northwood Elec. Lt.

& Pwr. Co.; pumping to elev. tank, 100,000 gal. wood.

Hyd. 22, hose con. 2½-in.; valves, r. h. thd.; meters, 55 various; ord. pres. 40 lb.

Rates: flat, $5 year, bath $3, closet $3; meters, 25c. 1000 gal.

OAKLAND, 1,105.

MUNICIPAL.

Mayor, J. L. Caldwell.....Oakland

OCHEYEDAN, 595.

MUNICIPAL.

Mayor, J. C. Ward.....Ocheyedan
Comr., Charles A. Cook..... "
" Charles Timmons..... "
" H. W. Glade..... "
Town Clerk, Charles Morton... "
Engr. P'g Sta., C. W. Keith.... "

Well, 18 ft. in diam. 30 ft. deep; near center business section.

Pumps, 1-288,000 gal. hor. single F. M. 1912 d. con. to gasoline engine, 15-hp. F. M. 1912; pumping to a standpipe (1912) 50,000 gal.

Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 18, hose con. 2½-in. Iowa & Kupferle; valves, 8; meters, 30 Worth.; av. daily cons. 5,000 gal.; serv. con. 30; ord. pres. 50 lb., fire pres. 150 lb.

Rates; meter, $1.50 quarter 6,000 gal., 25c. 1,000 gal. max., 20c. min.

ODEBOLT, 1,283.

MUNICIPAL.

Supt., W. E. Fuller.....Odebolt

OGDEN, 1,298.

MUNICIPAL. Ogden Light & Power Co.

Supt., P. J. Casserly.....Ogden

Well, 4 to 8-in. 2700 ft. deep; near center business section; no purification.

Elec. motor, 25-hp. 220 v. 3 ph. 25 cys. G. E. 1913; pumping to elev. rank, wood.

Hyd. 20, hose con. 4-in.; meters, 6 Buffalo; av. daily cons. 40,000 gal.; ord. pres. 43 lb., fire pres. same.

Rates; meter, $1.20 quarter, 40c. 1,000 gal.

OLIN, 659.

MUNICIPAL.

Mayor, Seward White.....Olin
Comr., F. W. Port..... "
" F. E. Truax..... "
Sec., G. B. Macomber..... "
Engr. P'g Sta., H. C. Mershon..... "

Well & impounding reservoir, 30,000 gal.; near center business section.

Elec. motor, 10-hp. 220 v. 3 ph. d. c. 1909; pumping to reservoir.

Pipe, 1.42 mi. 4 to 6-in. c. i.; hyd. 17, hose con. 2½-in. ;valves, 3 l. h. opening serv. con. 104; ord. pres. 50 to 85 lb., fire pres. 50 to 120 lb.

Rates; flat, $8 year, bath $3, closet $3.

ONAWA, 2,026.

MUNICIPAL.

City Clerk, C. L. Collins.....Onawa

ORANGE CITY, 1,374.

MUNICIPAL.

Supt., Albert Monore.....Orange City

OSAGE, 2,445.

MUNICIPAL.

City Engr., A. E. Kearney.....Osage
City Clerk, A. S. Wright..... "

OSCEOLA, 2,416.

MUNICIPAL.

Supt., William Lingle.....Osceola

OSKALOOSA, 9,466.

PEOPLES' WATER CO.

Pres., H. S. Howard.....Oskaloosa
V. Pres., H. L. Seenter..... "
Treas., J. C. Wands..... "
Supt., C. J. Fox..... "

River and wells; 4 mi. from center distribution; settling and coagulating basin, 1-5,000,000 gal.; mechanical filters, 1,500,000 gal.; chemicals, hypochlorite of lime and sulphate of alumina.

Boilers, 3 fire tube 125 hp. ea. Murray; hand stoking; pumps, 3-2,000,000 gal. Allis C and Deane; pumping to standpipe (1885), 375,000 gal., iron.

Pipe, 27 mi. 4 to 12-in. c. i.; hyd. 135, hose con. 2½-in. and 4½ Rensselaer; valves, 120 l. h. opening; meters, 600 Neptune, National and Hersey; av. daily cons. 1,350,000 gal.; serv. con. 22;; ord. pres. 40 lb., fire pres. 120 lb.

Rates: meter, 40c. 1000 gal. max., 20c. min.

OTTUMWA, 22,012.

MUNICIPAL.

Chmn. Comrs., H. L. Waterman. Ottumwa
Comr., D. F. Morey..... "
" H. C. Williams..... "
Supt. & Des. Engr.,
Horace A. Brown..... "
Engr. P'g Sta., W. G. Reed..... "

Des Moines River; 1.5 mi. from center business section; coagulating basins, 2-500,000 gal.; mech. filters, 4,000,000 gal. N Y. C. Jewell; chemical, sulphate of alumina.

Boilers, 4 return tubular 150-hp. 140 lb. Bass 1905; hand stoking; pumps, 1-2,000,000 gal. Bass 1905; hand stoking; pumps, 1-2,000,000 gal. hor. duplex, 1-3,000,000 gal. hor. duplex 1905, 1-5,000,000 gal. hor. De Laval 1905, 2-2,500,000 gal. hor. De Laval 1914, 2-5,000,000 gal. hor. De Laval 1904, 1-1,250,000 gal. hor De Laval 1904; steam engines, 120-hp. Allis 1890; elec. motors, 2 75-hp. ea. 500 v. Westg. 1914, 2 75-hp. ea. 500 v. Bullock 1904, 2 50-hp. 500 v. Westg. 1912, 1 35-hp. 500 v. Westg. 1912, 1 5-hp. 500 v. Westg. 1912; steam turbines, 4 hor. 75, 250 & 350-hp. De Laval; water turbines, 5 500-hp. American; elec. gen., 2 150 kw. G. E. & Milwaukee; pumping direct & to reservoir, 1,000,000 gal.

Pipe, 36.8 mi. 4 to 24-in. c. i.; hyd. 304, hose con. 2½-in. Ludlow, Iowa & Norwood;

valves, r. h. opening Ludlow & Iowa; meters, 1,225 Thomson, Pittsburgh, Neptune & National; av. daily cons. 2,000,000 gal.; serv. con. 2,006; ord. pres. 83 to 160 lb., fire pres. same.

Rates; flat, $8 6 mo., bath $5, closet $5; meter, 75c. mo. 300 cu. ft., 30c. 1,000 gal. max., 6.5c. min.

OXFORD JUNCTION, 822.

MUNICIPAL.

Supt., E. A. Grimwood....Oxford Junction

Well, 16 ft. in diam .25 ft. deep; near center business section.

Pumps, 1-200,000 gal. hor. triplex 1898; purchase energy from Lasack Bros. & Co.; pumping to elev. tank (1898) 30,000 gal. wood.

Pipe, 1.5 mi. 4 & 6-in. c. i.; hyd. 17, hose con. 2½-in.; valves, 11 r. h. opening Eddy; av. daily cons. 40,000 gal.; serv. con. 105; ord. pres. 35 lb.

Rates; flat, $5 year, bath $1, closet $1.

PANORA, 1,080.

MUNICIPAL.

Supt., John Harris.....Panora

PARKERSBURG, 938.

MUNICIPAL.

Mayor, R. S. Blair.....Parkersburg
Town Clerk, W. T. Evans..... "
Chemist, State Board of Health.Des Moines

Wells, 2 6-in. 100 ft.deep; near center business section.

Pump driven by gasoline engine, 8-hp. I. H. C. 1908; pumping direct & to elev. tank (1896) wood & steel.

Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 21, hose con. 2½-in.; valves, 6 r. h. opening; meters, 66 Pittsburgh; ord. pres. 40 to 60 lb., fire pres. same.

Rates; flat, $1.50 quarter, bath 75c., closet 75c.; meter, 40c. 1,000 gal.

PELLA, 3,021.

MUNICIPAL.

Supt., Wm. Schreiner.....Pella
City Clerk, A. C. Knyper..... "

Des Moines River and well, 20 ft. in diam. 27 ft. deep; 3.75 mi. from center distribution.

Pumps, 2-2,160,000 gal. Deane driven by elec. motor, 75-hp. 2200 v. 3 ph. 60 cys. Allis C.; pumping to elev. tank, 63,000 gal., wood.

Pipes, 9.75 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 2½-in. Mich. and Iowa; valves, 54 r. h. thd. Mich. and Iowa; meters, 225 Neptune; av. daily cons. 250,000 gal.; serv. con. 235; ord. pres. 40 to 50 lb.

PERRY, 4,630.

MUNICIPAL.

City Clerk, Adrian Cross.....Perry

PIERSON, 416.

MUNICIPAL.

Supt., Ralph E. Cottrell.....Pierson

Sand Point; ½ mi. from center business section.

Pumps, 1-648,000 gal. vert. triplex belted to gasoline engine, 35-hp. I. H. C. 1912; pumping to elev. tank.

Pipe, 1.25 mi. 4 to 6-in.; hyd. 14, hose con. 3-in. Kupferle; valves, 2 r. h. opening Crane; serv. con. 74; ord. pres. 58 to 100 lb.

Rates; flat, $5 year, closet.

POSTVILLE, 952.

MUNICIPAL.

Supt., L. A. Bellows.....Postville

Well, 8-in. 514 ft. deep; near center business section; no purification.

Elec. motor, a. c. 11-hp. 220 v. 3 ph. 60 cys. G. E. 1910; pumping to elev. tank (1895) 70,500 gal. steel.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 22, hose con. 2½-in. National, Rensselaer & Waterous; valves, 13 l. h. opening; meters, 202 Badger & Pittsburgh; serv. con. 200; ord. pres. 40 lb., fire pres. same.

Rates; meter, $1 1,000 gal. max., 25c. min.

PRAIRIEBURG, 187.

MUNICIPAL.

Mayor, H. D. Conklin.....Prairieburg
Chmn. Wtr. Comrs., Roy Fisher.
Comr., N. J. Benson.....
" Paul Sauser..... "
" C. H. Hannold..... "
Supt., F. J. Holub..... "

Well, near center business section.

Pumps, 1-100,800 gal. vert. simple c. & f. wh. Keystone Driller, driven by gas engine, 16-hp. Charter 1913; pumping to reservoir, 13,000 gal.

Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 18, hose con. 3-in. Chapman; meters, 25 Worth.; av. daily cons. 10,000 gal.; serv. con. 30; ord. pres. 50 lb., fire pres. 50 to 125 lb.

Rates; flat, $1.50 quarter; meter, $1.50 quarter, 18c. cu. ft.

REDFIELD, 659.

MUNICIPAL.

Supt. & Comr., C. J. Parkhouse...Redfield
Comr., W. O. Queals..... "
" A. G. Wood..... "
Engr., C. W. Moffit..... "

Well, 10 ft. in diam., 1400 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, 1-86,400 gal. F. M. driven by elec. motors, 6 kw. 220 v. 3 ph. 60 cys. Ft. Wayne; pumping to elev. tank, 36,000 gal., steel.

Pipes, 2.5 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in.; valves, 10 r. g. thd. Crane; meters, 3 Buffalo; av. daily cons. 19,000 gal.; serv. con. 65; ord. pres. 28 to 87 lb., fire pres. same.

Rates: flat, $6 year; meter, 50c. 1000 gal. max., 25c. min.

RED OAK, 4,830.

MUNICIPAL.

City Clerk, Richard Roberts.....Red Oak

ROCKFORD, 916.
MUNICIPAL. (Pumping by Rockford Light & Power Co.)
Supt., H. E. Mathews.....Rockford
Shellrock River; near center distribution.
Pumps, 1-500,000 gal. Goulds belted to gasolene engine, 60-hp. Hart Parr; pumping to elev. tank, 30,000 steel.
Hyd. 20, hose con. 3-in.; meters, none; av. daily cons. 30,000 gal.; serv. con. 75; ord. pres. 60 lb., fire pres. 100 lb.
Rates: flat, 5c. front ft. year, bath $3, closets $3.

ROCK RAPIDS, 2,150.
MUNICIPAL.
Mayor, E. O. Carpenter.....Rock Rapids
City Clerk, J. K. Medberry... " "
Supt., W. F. Gingrich..... " "
Engr. P'g. Sta.,
Thomas Payton..... " "
Wells, 2, 12 & 18 ft. in diam. 30 ft. deep; ½ mi. from center distribution; no purification.
Pumps, 2-576,000 Goulds driven by elec. motors, 2, 28-hp. 220 v. d. c. Westg.; elec.
Pumps, 2-576,000 Goulds driven by elec. motors, 2,28-hp. 220 v. d. c. Westg.; elec. energy from city pwr. sta.; pumping direct and to standpipe (1890), steel.
Pipe, 7 mi. 4 to 12-in. cement, c. i. and steel; hyd. 40, hose con. 2½-in. Eclipse; valves, 15 r. & l. h. thd.; meters, 175; av. daily cons. 150,000 gal.; serv. con. 350; ord. pres. 50 to 80 lb., fire pres. 80 lb.
Rates: flat, 50c. mo.; meter, 20c. 1000 gal.

ROCK VALLEY, 1,198.
MUNICIPAL.
Supt. & Engr. P'g Sta.,
H. R.Shipman.....Rock Valley
Well, 10 ft. in diam. 32 ft. deep; near center business section.
Pumps, 1-200,000 gal. rot. Goulds 1898, 1-500,000 gal. vert. triplex Rumsey 1909; belted to gasoline engine, 20-hp. F. M. 1909; pumping to elev. tank (1898) 40,000 gal. wood.
Pipe, 2.5 mi. 4 to 8-in. c. i.; hyd. 23, hose con. 2½-in. American & Kupferle; meters, 98 Buffalo, Badger, Thomson & Pittsburgh; av. daily cons. 3,500 gal. 85%; serv. con. 135; ord. pres. 43 to 54 lb., fire pres. 43 to 100 lb.
Rates; flat, $4 year, bath $1, closet $1; meter, $5 year 6,000 gal., 10c. 1,000 gal. min.

RUTHVEN, 655.
MUNICIPAL.
Mayor, R. J. Hughes.....Ruthven
Deep well, 170 ft. deep.
Pump, one vert. Myers belted to gasoline engines, 2 4 & 20-hp. Waterloo 1900 ; 1911; pumping to air pres. tank.
Hyd. 14; meters, 50 Buffalo; av. daily cons. 3,500 gal.; ord. pres. 60 lb.
Rates; 50c. 1,000 gal. max., 25c. min.

SABULA, 918.
MUNICIPAL.
Mayor & Supt., H. Schultz.....Sabula
Wells, 6-in. 950 ft. deep; in center of town.
Pump driven by gasolene engine, 32-hp. F. M.; pumping to elev. tank.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 26, hose con. 2-in.; valves, 9 r. h. thd. Crane; av. daily cons. 60,000 gal.; serv. con. 190; ord. pres. 18 lb., fire pres. 70 lb.

SAC CITY, 2,201.
MUNICIPAL.
Mayor, N. O. Gishwiller.....Sac City
Supt., George I. Cory..... " "
Town Clerk, W. F. Weary..... " "
Impounding reservoirs, 2-120,000 gal. & springs; one mi. from center business section.
Pumps, 1-250,000 gal. vert. Deane 1905, 1-125,000 gal. vert. Deane 1907 belted to elc. motors, 2 a. c. 10 & 20-hp. 440 v. 2 ph. 60 cys. Westg. 1905 and Triumph 1907; pumping to standpipe (1900).
Meters, 435; av. daily cons. 80,000 gal.; serv. con. 435; ord. pres. 50 to 100 lb., fire pres. same.
Rates; meter, 50c. 1,000 gal. max., 20c. min.

SANBORN, 1,174.
MUNICIPAL.
Supt., J. H. McNeil.....Sanborn

SCHALLER, 646.
MUNICIPAL.
Mayor, H. I. Strahm.....Schaller
Engr. P'g Sta., H. Swanton..... "
Well, 12-in. 20 ft. deep; near center business section.
Pump, one vert. triplex driven by gasoline engine, 10-hp. Weber; pumping to elev. tank (1898) 18,000 gal. wood.
Pipe, 2 mi. 4 & 6-in. c. i.; hyd. 20, hose coh. 2½-in.
Rates; flat, $3 6 mo., bath $1.50, closet $1.50.

SCRANTON, 845.
MUNICIPAL.
Chmn. Comr., Robert Cain.....Scranton
Supt., C. H .Goodyear..... "
Engr. P'g Sta., J. E. Ellsworth.... "
Well, 8-in. 212 ft. deep; near center business section.
Pumps, 1-40,000 gal. vert. single Goulds 1913 belted to gasoline negine; pumping to elev. tank (1897) 40,000 gal. steel, Des Moines Bridge & Iron Co.
Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 11, hose con. 2½-in. Nott; valves, 10 r. h. opening; meters, 115 Buffalo; av. daily cons. 10,000 gal. 90%; serv. 115; ord. pres. 45 to 55 lb.
Rates; meter, $5 year, 40c. 1,000 gal.

SEYMOUR, 2,290.
MUNICIPAL.
Supt. & Engr. P'g. Sta.,
Milo Neely.....Seymour

Impounding reservoir, 25,000,000 gal.; 6 mi. from center distribution.

Boilers, 2 tubular 200-hp. Murray; hand stoking; pumps, 2-750,000 gal. Platt; elec. motor, 15.7 kw. 1100 v. 3 ph. 60 cys. Westg.; elec. energy from city light plant; pumping direct.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 36, hose con. 3-in. Rensselaer; valves, 24 r. h. thd. Clow; meters, 33 Neptune and Hersey; av. daily cons. 60,000 gal.; serv. con. 33; ord. pres. 25 to 60 lb., fire pres. 80 to 125 lb.

Rates: meter, 25c. 1000 gal.

SHELDON, 3,000.

MUNICIPAL.

City Clerk, Scott Martin.....Sheldon
Engr. P'g. Sta., H. H. Rudloff..... "

Wells, 3, 14 ft. in diam. 24 ft. deep; 1 mi. from center distribution; no purification.

Boilers, 2 return tubular 50-hp.; hand stoking; pumps, 1-1,296,000 gal. steam Goulds, 1 hor. comp. duplex F. M., 1-432,000 gal. vert. triplex Goulds driven by elec. motor, 25-kw. 220 v. s. ph. 60 cys. Century; pumping to standpipe (1896), wood.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 54, hose con 2½-in. Eddy; valves, 6 l. h. thd. Eddy; meters, 475 Thompson; av. daily cons. 325,000 gal.; serv. con. 435; ord. pres. 30 to 40 lb., fire pres. 45 to 60 lb.

Rates: meter, min. charge $2 year, 50c. 1000 gal max., 10c. min.

SHENANDOAH, 4,976.

MUNICIPAL.

Comr., C. M. Conway.....Shenandoah
Engr. P'g. Sta., W. G. Ross... "

Wells, 9, 6 to 10-in. 48 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 2 hor. 40-hp. ea. Springfield; hand stoking; pumps, 2-750,000 gal. ea. Deane; pumping to standpipe (1892), steel.

Pipe, 12.77 mi. 4 to 12-in. c. i.; hyd. 102, hose con. 2½-in. mostly Ludlow; valves, 57 r. h. thd. Ludlow; meters, 825 various; av. daily cons. 250,000 gal.; serv. con. 825; ord. pres. 60 to 120 lb., fire pres. same.

Rates: all meter, 20c. 1000 gal. max., 8c. min.

SIBLEY, 1,330.

MUNICIPAL.

Wells, 2 30 to 316 ft. deep; ½ mi. from center distribution.

Pumps, 1-216,000 gal. Goulds, 1-144,000 gal. Goulds belted to gasoline engines, 2 16 & 32-hp. Otto & Southern; pumping to standpipe (1907) steel.

Pipe, 5 mi. c. i.; hyd. 52, hose con. 3-in. Eddy, Bourbon & Iowa; valves, 16 r. h. & l. h. thd.; meters, 100 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 55 lb., fire pres. 55 lb.

Rates; meter, 30c. 1,000 gal. max., 20c. min.

SIDNEY, 1,019.

MUNICIPAL.

Supt., H. H. Moornan .....Sidney

SIGOURNEY, 2,032.

MUNICIPAL.

Mayor, J. H. Wyllie.....Sigourney
Supt., J. R. Higgins..... "

SIOUX CITY, 47,828.

MUNICIPAL.

Comr., J. M. Lewis.....Sioux City
Supt., Phil. Carlin..... " "

Wells, 14, 8 & 16-in. 100 to 300 ft. deep; impounding reservoir, 8,000,000 gal.; no purification.

Boilers, 2 vert. 250-hp. ea. 160 lb. Kenny 1906, 2 hor. return tubular 100-hp. ea. 95 lb. Brownell; hand stoking; pumps, 1-6,230,000 gal. vert. triple exp. c. & f. wh. Holly, 1-4,000,000 gal. hor. comp. duplex c. & f. wh. Snow, 2-1,250,000 gal. hor. comp. duplex Deane; pumping direct and to reservoirs, 3-8,000,000 gal.

Pipe, 90 mi. 4 to 24-in.; hyd. 555, hose con. 2½-in. various; valves, 785; meters, 6200 National and Neptune; av. daily cons. 3,000,000 gal.; serv. con. 6450; ord. pres. 40 to 115 lb., fire pres. 115 lb.

Rates: meter, min. charge $1 mo. 4000 gal., 25c. 1000 gal. max., 10c. min.

SIOUX RAPIDS, 868.

MUNICIPAL.

Mayor, C. E. Travis.....Sioux Rapids
Comr., H. L. Farmer..... " "
" Edward Anderson.... " "
Sec., F. H. Dierks..... " "

Well, 24 ft. in diam. 40 ft. deep; near center business section.

Purchase energy from local electric light plant; pumping to elev. tank (1914) 75,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 2 mi. 6-in.; hyd. 30m hose con. 4-in.; meters, 300 Pittsburgh; av. daily cons. 20,000 gal.; ord. pres. 50 to 85 lb., fire pres. 50 to 150 lb.

Rates; meter, $1 quarter 4,000 gal.

SLOAN, 507.

MUNICIPAL.

Mayor, A. L. Calderhead.....Sloan
Town Clerk, S. J. Oliver..... "

Wells, 4, 2 & 3-in. 34 to 70 ft. deep; at center distribution; no purification.

Pumps, 1-72,000 gal. F. M. belted to gasoline engine, 6-hp. F. M.; pumping toelev. tanks, 50,000 gal., steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 2-in. Ludlow and Kupferle; meters, 25 Pittsburgh; av. daily cons. 2000 gal.; serv. con. 35; ord. pres. 50 lb., fire pres. same.

Rates: meter, 30c. 1000 gal.

SOLON, 450.

MUNICIPAL.

Supt., F. N. Meyers.....Solon
Engr. P'g Sta., W. C. Hess..... "
Chemist, State University of Iowa... "

Well, 6-in. 150 ft. deep; near center business section.

Gasoline engine, 8-hp. F. M. 1899;

pumping to elev. tank (1899) 37,800 gal. Meredith, wood.

Pipe, one mi. 6 to 8-in. iron; hyd. 10, hose con. 4-in.; valves, 4 r. h. opening; av. daliy cons. 8,450 gal.; serv. con. 150; ord. pres. 40 lb., fire pres. same.

Rates; flat, $5 quarter, bath $6, closet $6.

SPENCER, 3,005.

MUNICIPAL.

Supt., Earl G. Guy.....Spencer

Wells, 3 open 3 ft. in diam. 20 ft. deep; near center business section.

Pumps, 1-1,000,000 gal. hor. comp. duplex; 1-300,000 gal. vert. triplex d. con. to elec. motor, 3½ kw. 5-hp. 220 v. 3 ph. 60 cys. Westg.; pumping to elev. tank (1910) 100,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 7 mi. 4 to 6-in. c. i.; hyd. 64, hose con. 2½-in. Ludlow.

Rates; flat, 50c. mo.; meter, 50c. mo. 2,000 gal., 25c. 1,000 gal. max., 15c. min.

SPIRIT LAKE, 1,162.

MUNICIPAL.

Mayor, C. S. Arthur.....Spirit Lake
Chmn. Comrs., H. F. Kruse.... " "
Comr., A. F. Bergman..... " "
" J. Schneidawind..... " "
Supt., Chas. F. Noll..... " "

Spirit Lake and well, 10 ft. in diam. 18 ft. deep; 1¼ mi. from center distribution.

Pump, 1-423,000 gal. Goulds driven by gasoline engine, 25-hp. Bates & Edmonds; pumping direct and to elev. tank, 75,000 steel, gal.

Pipe, 3 mi. 4 to 12-in.; hyd. 27, hose con. 2½-in. Ludlow; meters, 200 Neptune, Pittsburg and Hersey; serv. con. 200; ord. pres. 50 to 60 lb., fire pres. 150 lb.

Rates: meters, 25c. 1000 gal.

SPRINGVILLE, 588.

SPRINGVILLE WATERWORKS CO.
(Pumping by F. M. Hamm Electric Light Plant.)

Pres., C. F. Butler.....Springville
Sec., J. D. Graham..... "
Supt., M. R. Sterner..... "

Well, 10-in. 150 ft. deep; near center distribution; no purification.

Pumps, 1-72,000 gal. driven by elec. motor; pumping direct and to elev. tank, 17,000 gal. wood.

Pipe, 1 mi. 4 & 6-in.; hyd. 9, hose con. 2-in.; meters, 12; av. daily cons. 15,000 gal.; serv. con. 135; ord. pres. 40 to 45 lb., fire pres. 170 lb.

Rates: flat, $6 year, bath $2.50, closet $2.50; meters, 30c. 1000 gal. max., 20c. min.

STORM LAKE, 2,428.

MUNICIPAL.

Mayor, A. R. Biddle.....Storm Lake
City Clerk, J. E. Buland..... " "
Storm Lake.

STRAWBERRY POINT, 1,052.

MUNICIPAL.

Supt., A. Steil.....Strawberry Point

Wells, 3, 8-in. 165 ft. deep; ¾ mi. from center distribution.

Pumps, 3-192,000 gal. Goulds, belted to gasolene engine, 2, 55 & 80-hp. Munzel; pumping to elev. tank, 58,000 gal., wood.

Pipe, 2.25 mi. 4 to 12-in. c. i.; hyd. 44, hose con. 2½-in. Kupferle; meters, 180 National and Pittsburgh; av. daily cons. 70,000 gal.; serv. con. 180; ord. pres. 50 to 55 lb., fire pres same.

Rates: meters, 35c. 1000 gal. max., 21½c. min.

STORY CITY, 1,387.

MUNICIPAL.

Supt., M. Henderson.....Story City
Engr. P'g Sta., J. Erickson..... " "

Impounding reservoir, 13,000 gal. & wells, 2 3 to 6-in. 90 ft. deep; near center business section; no purification.

Pumps, 1-200,000 gal. vert. simple d. act. L-D-G 1896, 1-50,000 gal. vert. triplex Goulds 1911; belted to elec. motor, 3-hp. 220 v. s. ph. 60 cys. Wagner 1911; purchase energy from Municipal Electric Lt. Plant; pumping to elev. tank (1896) 51,000 gal. wood.

Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 28, hose con. 2½-in. Bourbon; valves, 10 l. h. opening; meters, 100 Neptune; av. daily cons. 40,000 gal. 60%; serv. con. 150; ord. pres. 37 to 40 lb., fire pres. 37 to 75 lb.

Rates; flat, $1.50 quarter, bath 75c., closet 75c.; meter, $1.50 quarter 430 cu. ft.. 35c. 1,000 gal. max., 20c. min.

STUART, 1,826.

MUNICIPAL.

City Clerk, C. H. Berner.....Stuart

SUMNER, 1,404.

MUNICIPAL.

Supt., Fred. Tibbetts.....Sumner

SUTHERLAND, 664.

MUNICIPAL.

Gen. Mgr., Charles Van Etten..Sutherland
Pur. Agt., G. A. Auperle..... "

Well, 8-in. 212 ft. deep; settling basin, 120,000 gal.

Boilers, one 14-hp.; elec. motor, 15-hp. 175 v. 60 cys. Century 1914; elec. energy from Peterson Power Co.; pumping to reservoir & standpipe (1902) 120,000 gal.

Pipe, one mi. 6-in. c. i.; hyd. 10, hose con. 2¼-in.; valves, 8 r. h. opening Crane; meters, 50; serv. con. 60; ord. pres. 70 lb., fire pres. same.

Rates; meter, 25c. mo. 1,000 gal. max., 15c. min.

TABOR, 909.

MUNICIPAL.

City Clerk, A. E. Watts.....Tabor

TAMA, 2,290.

MUNICIPAL.

Comr., E. R. Sperry.....Tama

THOMPSON, 500.

MUNICIPAL.

Supt., Otto Alquist.....Thompson
Wells, 200 ft.; 1 mi. from center distribution.
Pumps driven by gas engine 5-hp.; pumping to standpipe and elev. tank.
Pipe, 4 & 6-in. c. i.; hyd. 39, hose con. 4-in.; meters, 39, Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 50.
Rates: flat, $6 year; meters, 40c. 1000 gal.

TRAER, 1,283.
MUNICIPAL.
Comr., A. H. Thomas.....Traer
" F. H. Hoeppner..... "
Supt., T. F. Stoakes..... "
Engr. P'g Sta., F. L. White..... "
Wells, 8-in. 241 ft. deep; near center business section.
Pumps, 1-144,000 gal. vert. double act. American 1911 geared to elec. motor, 15-hp. 220 v. Northern 1911; purchase energy from Traer Elec. Co.; pumping to elev. tank (1894) 72,000 gal. wood, F. M.
Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 25, hose con. 2½-in. valves, 10 l. h. opening; meters, 125 various; av. daily cons. 50,000 gal.; serv. con. 250; ord. pres. 40 to 75 lb., fire pres. same.
Rates; flat, $5 year; meter, 40c. 1,000 gal. max., 15c. min.

UTE, 490.
MUNICIPAL.
Town Clerk, W. C. Hitchins.....Ute
Wells, 8 2-in. 80 ft. deep.
Pumps, Goulds driven by gasoline engine, 18-hp.; pumping to elev. tank, 30,000 gal. steel.
Hyd. 20, hose con. 2½-in.; serv. con. 150; ord. pres. 40 lb.
Rates; flat, 50c. mo.; meter, 5c. 100 gal.

VALLEY JUNCTION, 2,573.
MUNICIPAL.
Mayor, Chas. Burt.....Valley Junction
Supt., J. C. Harris..... " "
Wells, 16-in. 25 ft. deep; ½ mi. from center distribution.
Boilers, 3 return tubular 2, 80 & 1, 125-hp. Atlas and Erie; hand stoking; pumps, 1-432,000 gal. Platt. 1 simplex Goulds belted to elec. motor, 20-hp. 220 v. 3 ph. 60 cys. G. E.; elec. energy from Des Moines Elec. Co.; pumping to elev. tank, 100,000 gal.
Pipes, 7 mi. 4 to 12-in. c. i.; hyd. 63, hose con. 2½-in. Rensselaer and Iowa; valves, 50 Iowa; meters, none; av. daily cons. 100,000 gal.; serv. con. 325; ord. pres. 80 to 85 lb., fire pres. same.

VILLISCA, 2,039.
MUNICIPAL.
Supt., Geo. B. Sexton.....Villisca
Wells, 3 20-in. 30 ft. deep; near center business section.
Boiler, hor. 20-hp.; hand stoking; pumps, 1-200,000 gal. hor. d. act. F. M., 2-50,000 gal. hor. F. M. 1912 belted to gasoline engine, 20-hp. F. M. 1912; pumping to elev. tank (1908) 100,000 gal. wood, Batavia
Pipe, 4 mi. 2½ to 6-in. c. & w. i.; hyd., hose con. 2½-in. Crane & Kupferle, valves, 14 r. & l. h. opening Clow & Crane; meters 235 Buffalo & Pittsburgh; av. daily cons 30,000 gal., serv. con. 235; ord. pres. 66 lb., fire pres. 125 lb.
Rates; meter, $1.25 quarter 2,500 gal.; 50c. 1,000 gal. max., 10c. min.

VINTON, 3,336.
MUNICIPAL.
Supt., W. E. Kluegaman.....Vinton
Engr. P'g Sta., Geo. Schindler..... "
Artesian wells, 2 5-in. 1,400 ft. deep; ¼ mi. from center distribution; impounding reservoir, 55,000 gal.
Boilers, 3 fire-tube 300-hp. Murray; hand stoking; 3-1,000,000 L-D-G.; air compressors, 2 Ingersoll-Rand; pumping direct.
Pipe, 8 mi. 4 to 12-in.; hyd. 58, hose con. 2½-in.; valves, 75 r. h. thd. Eddy; meters, 550 National & Neptune; av. daily cons. 225,000 gal.; serv. con. 550; ord. pres. 75 lb., fire pres. 110 lb.
Rates; meter, 40c. 1,000 gal. max., 8c. min.

WALL LAKE, 561.
MUNICIPAL.
Supt., Wm. Robinson.....Wall Lake
Town Clerk, J. S. Whitney..... " "
Well, 8 ft. in diam. 20 ft. deep, ½ mi. from center distribution; no purification.
Pump driven by gasoline engine, 10-hp. Otto; pumping to elev. tank.
Hyd. 18, hose con. 2½-in.; meters, 6; av. daily cons. 60,000 gal.; serv. con. 250; ord. pres. 55 lb. fire pres. same.

WALNUT, 950.
MUNICIPAL.
Supt., William Carstensen.....Walnut

WAPELLO, 1,326.
MUNICIPAL.
Chmn. Comrs., Chas. Kemper.....Wapello
Comr., D. N. Farmer..... "
" W. C. Herrick..... "
Supt., W. C. Saunders..... "
City Rec., M. Hunter..... "
Wells, 24 24 ft. deep; near center distribution; no purification.
Pumps, 1-432,000 gal. National driven by gasoline engine, 25 hp. R. & V.
Pipe, 2 mi. 4 to 12 in. c. i.; hyd. 25, hose con. 3-in.; valves, 30 r. h. thd. Iowa; meters, 85 Neptune; av. daily cons. 300,000 gal.; serv. con. 90; ord. pres. 40 to 50 lb., fire pres. 40 to 75 lb.
Rates; meters, 40c. 1,000 gal.

WASHINGTON, 4,380.
MUNICIPAL.
Comr., Geo Reister.....Washington
" A. N. Alberson..... "
" Sam'l. Kellogg..... "
Supt., St. Clair Lewis..... "
Engr. P'g. Sta., J. D. Buckley.. "
Wells, 2, 1560 & 1808 ft. deep; near center distribution; reservoir, 30,000 gal.; no purification.

Boilers, 3 return tubular 100-hp. ea. Kewanee and Murray; pumps, 2-600,000 gal. ea. Dane; air compressors, 2 Ingersoll-Rand and L-D-G.; pumping to standpipe (1892), iron.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 131, hose con. 2½-in. R. D. W.; valves, 35 r. h. thd. Eddy; meters, 880 Neptune and Hersey; av. daily cons. 200,000 gal.; serv. con. 880; ord. pres. 45 to 47 lb., fire pres. 80 to 100 lb.

Rates: meter, 40c. 1000 gal.

WATERLOO, 26,693.

MUNICIPAL.

Pres. Comrs., J. E. Sedgwick.....Waterloo
V. Pres. Comrs., J. W. Rath..... "
Sec., C. E. Shoemaker..... "
Comr., J. W. Krapfel..... "
Supt., J. P. Berry..... "

Artesian wells, 4, 8-in. 1375 ft. deep; near center distribution; reservoir, 1-2,000,000 gal.

Boilers, 3 return tubular 100-hp. ea. 130 lb., 2 Kewanee and Murray; pumps, 1-3,000,000 gal. hor. comp. duplex c. & f. wh. Barr 1902, 2-4,000,000 gal. ea. hor. comp. duplex c. & f. wh. Snow 1910, 1-1,000,000 gal. centrifugal B. J. 1905, 1-1,584,000 gal. centrifugal B. J. 1910, 1-2,016,000 gal. centirfugal American 1914; elec. motors 2, 40 & 60-hp. 2300 v. 3 ph. 60 cys. G. E. 1905 & 1910, 1, 75-hp. 2300 v. 3 ph. 60 cys. Westg. 1910; elec. energy from local Gas & Electric Co.; pumping direct.

Pipe, 54 mi. 4 to 30-in. c. i.; hyd. 555, hose con. 2½-in. Ludlow; valves, 562 Ludlow and Smith; meters, 4600 National; av. daily cons. 1,254,500 gal.; serv. con. 4700; ord. pres. 55 to 65 lb., fire pres. 80 to 120 lb.

Rates: meter, 25c. 100 cu. ft. max., 7½c min.

WAUKON, 2,025.

MUNICIPAL.

Chmn. Comrs., J. M. Lee.....Waukon
Comr., F. A. Ludeking..... "
" W. H. Niehaus..... "
Supt. & City Clerk, J. D. Cowan. "

Wells, 2 8½-in. 677 ft. deep; ½ mi. from center business section; no purification.

Boilers, one hor. tubular 50-hp. 100 lb. Erie 1898, one hor. tubular 30-hp. 100 lb. Erie 1900; hand stoking; pumps, 1-72,000 gal. vert. simple Platt 1898, 1-100,000 gal. vert. duplex Keystone 1905; steam engine, 35-hp. Leffel 1905; elec. motor, 30-hp. 220 v. 3 ph. 60 cys. G. E. 1905; purchase energy from Upper Iowa Power Co.; pumping to standpipe (1898) 115,200 gal.

Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 50c hose con. 2½-in. Waterous; valves, 22 r. h. opening Eddy; meters, 305 Pittsburgh; av. daily cons. 75,000 gal. 90%; serv. con. 390; ord. pres. 43 to 85 lb.

Rates; meter, $1 quarter 2,000 gal., 50c. 1,000 gal. max., 35c. min.

WAVERLY, 3,205.

MUNICIPAL.

Mayor, J. Y. Hazlett.....Waverly
Comr., G. S. Barber..... "
" W. M. Brooks..... "
" F. H. Albrecht..... "
City Clerk, H. R. Van Deweer.... "
Supt., W. M. Roe..... "
Engr. P'g. Sta., E. C. Schucknecht "

Artesian wells, 1, 8 to 4-in. 1718 ft. deep; near center distribution; reservoirs, 2-96,000 gal.; no purification.

Pumps; 1 air lift Marsh, 2 hor. duplex Platt driven by elec. motors, 2, 53 kw. 220 v. 3 ph. 60 cys. Westg.; elec. energy generated from water power; pumping direct and to elev. tank.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 63, hose con. 2½-in.; valves, 12 l. h. thd.; meters, 475; av. daily cons. 125,000 gal.; serv. con. 500; ord. pres. 65 to 75 lb., fire pres. 100 lb.

Rates: flat, 40c. 1000 gal. max., 10c. min.

WEBSTER CITY, 7,000.

Supt. & Des. Engr.,
R. J. Mullins.....Webster City

Artesian wells, 4, 8-in. 110 ft. deep; ½ mi. from center distribution; no purification.

Pumps, 2-750,000 gal. ea. vert. triplex Deane; gasolene engine, 50-hp. Alamo; elec. motors 40-hp 2300 v. 3 ph. 60 cys. Westg.; elec. energy from local central station; pumping to elev. tank (1903), 63,000 gal., steel.

Pipe, 26 mi. 4 to 12-in. c. i.; hyd. 124, hose con. 2½-in. R. D. W.; valves, 200 l.h. thd. R. D. W.; meters, 289 Neptune and Pittsburgh; av. daily cons. 270,000 gal.; serv. con. 760; ord. pres. 15 to 40 lb., fire 85 to 110 lb.

Rates: flat, min. $6 year, ;meter 20c. 1000 gal. max., 10c. min.

WEST LIBERTY, 1,666.

MUNICIPAL.

Supt., C. J. Mackey.....West Liberty

WHAT CHEER, 1,730.

Supt., W. Q. Meade.....What Cheer

Wells, 14 ft. in diam. 40 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, 1-346,000 gal. Haberle driven by elec. motor; elec. energy from Sigourney; pumping to elev. tank, 60,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in. Pratt & Cady; meters, 79 Gamon; av. daily cons. 6000 gal. serv. con. 79; ord. pres. 59 to 69 lb., fire pres. same.

WILLIAMS, 497.

MUNICIPAL.

Chmn. Comrs., J. J. Carr.....Williams
Supt., Edwin Millsop..... "

Wells; near center distribution; no purification.

Pumps, driven by elec. motor, 10 kw. 220 v. d. c.; pumping to elev. tank, 50,000 gal., steel.

Pipes, 1 mi. 4 to 12-in. c. i.; hyd. 18, hose con. 2½-in. Iowa; meters, 127 Hersey; av. daily cons. 20,000 gal.; serv. con. 127; ord. pres. 35 lb., fire pres. same.

Rates: meter, 40c. 1000 gal.

WILLIAMSBURG, 1,060.

MUNICIPAL.

Mayor, R. E. Jones.....Williamsburg

WILTON JUNCTION, 1,157.

MUNICIPAL.

Mayor, Geo. Bannick.....Wilton Jct.
Supt., W. M. Knott..... " "

Well, 8-in. 1500 ft. deep; ½ mi. from center distribution.

Boilers, 2 tubular 125-hp. ea. Murray and Frost; hand stoking; pump, deep-well American; pumping to standpipe (1905), steel.

Hyd. 35, hose con. 3-in.; meters, 100 Pittsburgh; av. daily cons. 40,000 gal.; ord. pres. 50 lb., fire pres. 65 lb.

WINTERSET, 2,818.

MUNICIPAL.

Supt., L. O. Klein.....Winterset
Cons. Engrs., Stiles & Harper.... "

Wells, 5-10 ft. in diam. 25 ft. deep; one mi. from center distribution.

Pumps, 2-432,000 gal. Deane; elec. motors, 40 kw. 2089 v. 3 ph. 60 cys. Ft. Wayne; elec. energy from municipal power house; pumping to elev. tank 100,000 gal., steel.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 49, hose con. 2½-in.; valves, 30 r. h. thd. Crane; meters, 175 Neptune; av. daily cons. 40,000 gal.; serv. con. 175; ord. pres. 60 lb., fire pres. 100 lb.

WINTHROP, 529.

MUNICIPAL.

Supt., James McKay.....Winthrop

Wells, 2 6 & 8-in. 175 ft. deep; near center business section; no purification.

Pumps, 2-86,400 gal. Myers 1914, belted to elec. motor, 10-hp. 120 v. F. M. 1914; pumping to elev. tank, steel & reservoirs, 2.

Pipe, 1.25 mi. 4 & 6-in. w. i.; hyd. 18, hose con. 2½-in.; valves, 8 l. h. opening; av. daily cons. 10,000 gal.; serv. con. 80; ord. pres. 60 to 80 lb., fire pres. 80 lb.

Rates; flat, $1.75 quarter, bath & closet $2.50.

WOODBINE, 1,538.

MUNICIPAL.

Mayor, Wells Dewell.....Woodbine

KANSAS

ABILENE, 4,118.
MUNICIPAL.
Mayor, W. D. Nichols.....Abilene
City Clerk, J. L. Worley..... "
Comr. & Supt., O. P. Fenton..... "
Cons. Engr., Kenyon Riddle..... "
Springs; 4 mi. from center distribution; no purification.
Boilers, 2 tubular held in reserve; hand stoking; pump driven by elec. motors, 25 & 35-hp. 220 v. 3 ph. 60 cys. G. E.; elec. energy from Riverside Lt. & Pwr. Co.; pumping to standpipes, steel.
Pipe, 9 mi. 4 to 12-in.; hyd. 120, hose con. 2½-in. Holly, Nelson & Kupferle; meters, 1276 Pittsburgh; av. daily cons. 4,940,000 gal.; serv. con. 1276; ord. pres. 40 lb., fire pres. 120 lb.
Rates; all meters, 25c. 1000 gal. max., 5c. min.

ALMENA, 702.
MUNICIPAL.
Shallow wells; rates; meter, min. charge $6 year, 15c. 1,000 gal. max., 10c. min.

ALTOONA, 1,462.
MUNICIPAL. Shallow wells.

ANTHONY, 2,669.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Mgr., W. M. Moore.....Anthony
City Clerk, A. G. Jordon..... "
Shallow wells.

ARKANSAS CITY, 7,508.
MUNICIPAL.
Supt., Howard Wyckliffe....Arkansas City
Shallow wells.

ASHLAND, 910.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Mayor, E. Allmon.....Ashland
Supt., A. W. Hawes..... "
Shallow wells; gas engines, 150-hp. F. M.

ATCHISON, 16,429.
ATCHISON WATER CO.
Supt., J. M. Chisham.....Atchison
Missouri River; ½ mi. from center distribution; settling and coagulating basins, 4-10,000,000; chemicals, hypochlorite of lime and sulphate of alumina.
Boilers, 3 tubular 100-hp. ea. 2 O'Brien and 1 Kewanee; hand stoking; pumps, 3-2,250,000 gal. ea. 2 L-D-G and one Epping-Carpenter; pumping direct and to elev. tank, 200,000 gal., steel.
Pipe, 30 mi. 4 to 14-in. c. i.; hyd. 180, hose con. 2½-in. mostly Ludlow; valves, 248 r. h. thd. Ludlow and Rensselaer; meters, 400 National and Neptune; av. daily cons. 1,400.000 gal.; serv. con. 2500; ord. pres. 48 to 130 lb., fire pres. same.

ATWOOD, 680.
MUNICIPAL.
Supt., John M. Granlee.....Atwood
Shallow wells.

AUGUSTA, 1,235.
MUNICIPAL.
City Engr., Joe R. Switzer.....Augusta
Supt. & Engr. P'g. Sta.,
W. B. Jones..... "
Walnut River; ½ mi. from center distribution; settling and coagulating basins, 2-650,000 gal.; chemical, lime.
Pumps, 3 driven by gasoline engines, 472-hp.; pumping to elev. tank, 50,000 gal., iron.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 38, hose con. 2½-in. Pratt & Cady; valves, 25; meters, 225 Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 225; ord. pres. 50 to 60 lb., fire pres. same.
Rates: all meter, 20c. 1000 gal. max., 10c. min.

BALDWIN CITY, 1,386.
MUNICIPAL.
Supt., H. L. Patterson.....Baldwin City
Engr. P'g Sta., Ova Winters.. " "
Pur. Agt., Waldo Jones..... " "
Impounding reservoirs, 60,000 gal. & wells, 2 18 to 30 ft. in diameter, 25 to 28 ft. deep; 3 mi. from center business section; no purification.
Pumps, 2-144,000 gal. triplex 1910 driven by elec. motors, 2 15 & 35-hp. 220 & 2300 v. 3 ph. 60 cys. Allis-C. & G. E. 1910 & 1913; gas engines, 3 45, 85 & 125-hp. Olds 1907 & Weber 1910; elec. generators, 3 15 & 50 kw. Triumph; pumping to elev. tank (1910) 45,000 gal.
Pipe, 4 & 6-in. c. i.; hyd. 46, hose con. one in.; valves, r. h. opening Crane; meters, 200 Neptune & Pittsburgh; av. daily cons. 55,000 gal. 80%; serv. con. 200; ord. pres. 42 to 50 lb., fire pres. 50 to 90 lb.
Rates; meter, 75c. mo. 283 cu. ft.

BAXTER SPRINGS, 1,005.
THE BAXTER SPRINGS ELECTRIC LIGHT & WATER CO.
Proprietor, Dr. B. M. Jones..Baxter Springs
Mgr., E. A. Brown..... " "
Supt., E. W. Ward..... " "
Deep wells.
Boiler, 100-hp. Frost; gas engine, 90-hp. Miller; steam engine, 125-hp. Corliss Rankins.

BELLE PLAINE, 849.
MUNICIPAL LIGHT & WATER PLANT.
Mayor, E. F. Myers.....Belle Plaine
Supt., John Lawliss..... " "
Shallow wells; oil engine, 100-hp. F. M.

BELLEVILLE, 2,224.
MUNICIPAL.
Mayor, Wm. Kamp.....Belleville
Pres. Comrs., E. Simmons..... "
Comr., Geo. W. Collins..... "
City Clerk, W. G. Schaefer..... "
Wells, 3, 7-in. 160 ft. deep; ½ mi. from center distribution.
Pumps, 3 deep-well Cook driven by

Deisel oil engine, 170-hp. Busch-Sulzer; pumping to standpipe.

Hyd. 47; av. daily cons. 60,000 gal.; serv. con. 470.

Rates: flat, 90c. mo., bath 30c., closet 30c.; meter, 50c. 1000 gal. max., 40c. min.

BELOIT, 3,082.

MUNICIPAL LIGHT & WATER PLANT.

Chmn. Comrs., Ben Brennage.....Beloit
Comr., W. J. Alsop..... "
" William Widger..... "
Sec., C. R. Herrick..... "
Supt., C. H. Hull..... "

Shallow wells.

Boilers, one tubular 150-hp. 150 lb. Atlas 1913; 2 tubular 150-hp. ea. 150 lb. Kewanee 1906; oil fuel; pumps, 1-500,000 gal. triplex Deane 1912 driven by elec. motors, 35-hp. 2300 v. 3 ph. 60 cys. Westg. 1912, 2-500,000 gal. triplex Deane 1913 driven by elec. motors, 2 35-hp. ea. 2,300 v. 3 ph. 60 cys. Westg. 1913; pumping direct & to standpipe (1885) 100,000 gal.

Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 110, hose con. 2½-in. Ludlow; valves, 60 r. h. opening Ludlow; meters, 350 Keystone; av. daily cons. 150,000 gal. 90%; serv. con. 650; ord. pres. 65 lb., fire pres. same.

Rates; all meter, min. charge $5 year 25,000 gal., 20c. 1,000 gal.

BLUE RAPIDS, 1,756.

MUNICIPAL; shallow wells.

BONNER SPRINGS, 1,462.

MUNICIPAL.

Supt., Noah Harrington....Bonner Springs
City Clerk, A. G. Parker... " "

Wells, 8 tubular; no purification.

Pump, 1-432,000 gal. Deane d. con. to gasolene engine, 50-hp. Olds; pumping to standpipe.

Meters, 150 Pittsburgh and Worth.; av. daily cons. 55,000 gal.; serv. con. 150.

Rates: all meter, 30c. 1000 gal. max., 20c. min.

BUCKLIN, 696.

MUNICIPAL.

Supt., C. E. Ellis.....Bucklin
City Clerk, W. R. Gordon..... "

Deep well.

BUNKER HILL, 242.

MUNICIPAL.

Mayor, J. A. Penix.....Bunker Hill
Supt., A. H. Shaffer..... " "

Springs & wells; 2.75 mi. from center business section.

Boiler, vertical 25-hp. 90 lb. Murray; pumps, 1-20,000 gal. vert. simple Deane 1890; pumping to elev. tank (1910) 110,000 gal. iron.

Pipe, 2 mi. 2½-in. iron; hyd. 10, hose con. 2-in.; valves, 3 l. h. opening; av. daily cons. 8,000 gal. 90%; serv. con. 70; ord. pres. 40 lb., fire pres. same.

Rates; flat, $12 year including bath & closet.

BURDEN, 424.

MUNICIPAL.

Supt., John Harris.....Burden
Engr. P'g Sta., W. J. Bowman..... "
City Clerk, Howard Collins..... "

Springs; 1.75 mi. from center distribution; no purification.

Pumps, 1-144,000 gal., d. con. to gasoline engine, 8-hp. F. M.; pumping to elev. tank, 50,000 gal. iron.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 26 hose con. 4-in. Ludlow; valves, 6 r. h. thd. Ludlow; meters, 142 Pittsburgh; serv. con. 142; ord. pres. 60 lb., fire pres. same.

Rates; meter, 25c. 1,000 gal.

BURLINGAME, 1,422.

MUNICIPAL.

Supt. & Engr. P'g Sta.,
W. E. Estep.....Burlingame
Cons. Engrs.,
Worley & Black.....Kansas City, Mo.
Chemist, C. C. Young,
University of Kansas.....Lawrence

Impounding reservoir, 6,000,000 gal. on Dragoon River; 3 mi. from center business section; coagulating basin; slow sand filter, 300,000 gal.; mech. filter, N. Y. C. Jewell; chemicals, sulphate of alumina & hypochlorite of lime.

Pumps, 2-425,000 gal. vert. Platt 1913, 2-425,000 gal. hor. Platt 1913, d. con. to elec. motors, 2 30-hp. 220 v. 3 ph. 60 cys. Westg. 1913, 2 7½-hp. 220 v. 3 ph. 60 cys. Westg. 1913; pumping to elev. tank (1913) 60,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 13.5 mi. 4 to 8-in. c. i.; hyd. 38, hose con. 2½-in. Iowa; valves, 84 l. h. opening Iowa; meters, 15 Pittsburgh; av. daily cons. 25,000 gal.; serv. con. 100; ord. pres. 60 lb., fire pres. same.

Rates; meter, 50c. mo., 40c. 1,000 gal. max., 25c. min.

BURLINGTON, 2,180.

MUNICIPAL.

Supt., S. E. Weaver.....Burlington
City Clerk, M. A. Limbocken... "

Neosho River.

BURR OAK, 1,132.

MUNICIPAL.

Mayor, M. J. Cook.....Burr Oak
Town Clerk, John W. Korb..... " "
Engr. P'g. Sta., F. F. Clark..... " "

Well, 20 ft. in diam. 60 ft. deep; near center business section.

Pumps, 2-720,000 gal. ea. F. M. geared to gasoline engine, 20-hp. Otto 1912 & oil engine, F. M. 1912; pumping to reservoir, 50,000 gal.

Pipe, 5 mi. 2 to 8-in. c. i. & galv. i.; hyd. 35, hose con. 2½-in. Iowa; valves, 16 l. h. opening; meters, 91 Neptune; av. daily cons. 10,000 gal.; serv. con. 91; ord. pres. 42 to 55 lb., fire pres. 110 lb.

Rates; meter, $1.50 quarter 6000 gal.

CALDWELL, 2,205.
MUNICIPAL.
Supt., H. W. Baker.....Caldwell
Engr. P'g. Sta., G. W. Troutman.. "
Wells, 2, 15 & 28 ft. in diam. 50 ft. deep; one mi. from center distribution; chemical, hypochlorite of lime.
Boilers, 3 return tubular 350-hp. 2 Brownell and one Atlas; hand stoking; pumps, 3-2,000,000 gal. 2 steam Worth. and one American driven by elec. motor, 10 kw. 2300 v. 3 ph. 60 cys. Westg.; elec. energy from municipal plant; pumping to standpipe (1906), iron.
Pipe, 4¼ mi. 4 to 12-in. c. i.; hyd. 72, hose con. 2½-in. various; meters, 369 Worth., Hersey and Neptune; av. daily cons. 500,000 gal.; serv. con. 370; ord. pres. 45 to 60 lb., fire pres. 90 lb.
Rates: all meter, 25c. 1000 gal. max., 12c. min.

CANEY, 3,579.
MUNICIPAL.
Supt., Gordon Flock.....Caney
Extensive improvements are being made, including the construction of settling and coagulating basins.
Av. daily cons. 150,000 gal.; serv. con. 375; ord. pres. 75 to 90 lb., fire pres. 90 lb.

CAWKER CITY, 870.
MUNICIPAL.
Mayor, D. M. Gants.....Cawker City
Shallow wells.

CEDAR VALE, 948.
MUNICIPAL.
Mayor, A. M. Shaver.....Cedar Vale
Cana River.

CHANUTE, 9,272.
MUNICIPAL.
Supt. and City Engr.,
Chas Pratt.....Chanute
Neosho River; 2½mi. from center distribution; settling and coagulating basins, 2-250,000 gal.; mechanical filters, 1,000,000 gal.; chemical, sulphate of alumina.
Boilers, 3 return tubular 80-hp. 2 Freeman and one English; gas fuel; pumps, 2-1,000,000 gal. Worth; pumping direct.
Pipe, 21 mi. 4 to 12 in.; hyd 145 con. 2½ in.; valves, 67 r. h. thd. crane; meters, 1600 Pittsburgh and Thomson; av. daily cons. 1,000,000 gal.; serv. con. 1600; ord. pres. 20 to 60 lb., fire pres. 45 to 75 lb.
Rates; all meter, 20c. 1000 gal. max., 8c. min.

CHAPMAN, *1000.
MUNICIPAL.,
Supt. and Engr. Pg. Sta.,
A. L. Dietz.....Chapman
Wells, 3 tabular; near center distribution; no purification.
Pumps, 3 driven by the elec. motors, 2000 kw.; elec. energy from local elec. light plant; pumping to standpipe (1912) steel.
Pipe, 2 in. 4 to 12-in. c. i.; hyd. 60, hose con. 4 in.; valves, r. h. thd.; meters, 62 Ft. Wayne; av. daily cons. 12,000 gal.; ser. con. 60; ord. pres. 30 to 50 lb., fire pres..60 to 70 lb.
Rates; all meter, 37½c. 1000 gal. max., 12½ min.

CHEROKEE, 1,452.
MUNICIPAL.
Mayor, B. A. Hiff.....Cherokee
Deep well.

CHERRYVALE, 4,304.
MUNICIPAL.
Supt., John Miller.....Cherryvale
Cons. Engr.,
Worley & Black.....Kansas City, Mo.
Verdigris River.

CHETOPA, 1,548.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Mgr., H. A. Finley.....Chetopa
City Clerk, A. R. Bell..... "
Pur. Agt., E. B. Bates..... "
Deep well; boiler 250-hp. Erie; steam engine, 150-hp. Erie.

CIMARRON, 587.
MUNICIPAL.
Supt., Engr. P'g Sta.,
William Westfall.....Cimarron
Des. Engrs.,
Worley & Black.....Kansas City, Mo.
Wells, 2 12-in. 35 ft. deep; ½ mi. from center business section; no purification.
Pumps, 1-288,000 gal. triplex double act. Lucas, belted to gasoline engine, 12-hp. R. & V. & oile engine, 60-hp. Muncie; pumping to standpipe (1889) 60,000 gal.
Pipe, 2.25 mi 4 & 6-in. c. i.; hyd. 24, hose con. 2½-in. Kupferle; valves, 11 r. h. opening; meters, 100 Neptune; av. daily cons. 30,000 gal.; serv. con. 100; ord. pres. 70 to 120 lb., fire pres. same.
Rates; all meter, $1 mo. 3,000 gal., 16c. 1,000 gal.

CLAY CENTER, 3,438.
MUNICIPAL.
Chmn. Comrs., W. L. Williams. Clay Center
Sec., F. B .Fullington..... " "
Mgr., J. Pinkerton..... " "
Supt. and Dis Engr.,
C. F. Rasmussen..... " "
Engr. P'g. Sta., C. S. Allender. " "
Wells near Republican River, 4 6-in and one 26 ft. in diam. 30 ft. deep; ½mi. from center distribution; no purification.
Boilers, 2 hor. tubular 100-hp. Eric; hand stoking; pumps, 1-1,000,000 gal. hor. comp. c. and f. wh. L-D-G. 1903, 1-1,000,000 gal. duplex Deane; pumping direct.
Pipe, 10 in. 4 to 12-in. c. i.; hyd. 58, hose con. 2½-in. Holly & Rensselaer; valves, 40 l. & r. h. thd. mostly Eddy; meters, 710 various; av. daily cons. 350,000 gal.; serv con. 725; ord. pres. 50 to 65 lb., fire pres. 80 to 100 lb.
Rates; all meter. 20c. 1000 gal. max, 7½c. min.

CLEAR WATER, 569.
MUNICIPAL LIGHT & WATER PLANT.
Supt. & Engr. P'g Sta.,
A. G. Dutton.....Clear Water
Shallow wells; oil engines, 80-hp. Sheffield.

CLIFTON, 650.
MUNICIPAL.
Mayor, Harold Prentice.....Clifton
Vil. Clerk, I. C. Rush..... "
Supt. & Engr. P'g Sta., G. H. Cusac "
Wells, 2 16 & 20-ft. in diam. 40 & 60 ft. deep; near center distribution; no purification.
Pumps, 2-60,000 gal. ea. hor. F. M. 1901 & 1908 d. con. to gasoline engines, 2 15-hp. ea. F. M. 1901 & 1908; pumping to standpipe (1904) 85,000 gal.
Pipe, 2.5 mi. 4 to 8 in. c. i.; hyd. 28, hose con. 2½-in. Kupferle; valves, 12 l. h. opening Crane; av. daily cons. 90,000 gal. 90%; serv. con. 125; ord. pres. 40 to 70 lb., fire pres. same.
Rates; flat, $1.25 quarter, bath 25c., closet 50c.; meter, min. charge $1.50 quarter 10,000 gal., 15c. 1000 gal. max., 10c. min.

CLYDE, 1,057.
MUNICIPAL.
Comr. R. J. Donahugh.....Clyde
Supt., F. G. Groff..... "
Wells, 36-in. 150 ft. deep; ¼ in. from center distribution; no purification.
Pumps driven by elec. motors, 20 kw. 220 v. d. c. Ft Wayne; elec. energy from Clyde Elec. Light Co.; pumping to standpipe (1888) iron.
Pipe, 4.5 in 4 to 12-in. c. i.;hyd. 40. hose con. 2½-in. Ludlow & Crane; valves, 12 l. h. thd. Crane; meters, 125 Neptune; av. daily cons. 100,000 gal.; serv. con. 130; ord. pres. 45 to 70 lb., fire pres. 90 lb.

COFFEYVILLE, 12,687.
MUNICIPAL.
Supt, C. E. Stromquist.....Coffeyville
Engr. P'g Sta., Ed. Furnish..... "
Verdigris River; 2-in from center distribution; coagulating basin, 2,000,000 gal.; mechanical filters, 4,000,000 gal.; chemicals, sulphate of alumina.
Boilers, one water tube 250-hp. Heine, 2 80-hp. Erie & F. M.; pumps, 3-7,000,000 gal. Snow & American; elec. motors, one 250-hp. 2300 2ph. 60cys. Westg.; pumping to reservoir, 3,000,000 gal.
Pipe, 40.55 in. 4 to 16-in. c. i.; hyd. 179, hose con. 2½-in Renssalaer; valves, 220 r. h. thd. Iowa, Crane & Rensselaer; meters, 2300 Neptune, Thomson, Pittsburgh & Hersey; av. daily cons. 1,672,000 gal.; serv. con. 2300; ord pres. 50 to 70 lb., fire pres. 100 to 130 lb.
Rates;meter, 15c. 1000 gal. max., 4c. min.

COLBY, 1,130.
MUNICIPAL LIGHT & WATER PLANT.
Mayor, Simpson Parrott.....Colby
City Treas., E. B. Ferguson.....Colby
City Clerk, C. B. Parrott..... "
Deep well; oil engine, 100-hp. De La Vergne; gas engine, 80-hp. Sheffield.

COLDWATER, 684.
MUNICIPAL.
Mayor, N. A. Lythe.....Coldwater
City Clerk, W. F. Baker..... "
Supt., L. A. Baldwin..... "
Wells, 4 6-in 70 ft. deep; ½-mi. from center distribution.
Pump,1-504,000 gal, Platt driven by elec. motor, 25-hp., 220 v. 3 ph. 60 cys. G. E. oil engine, 80-hp. American; pumping to elevated tank, 50,000 gal. iron.
Pipe, 3-in. 4 to 12-in. c. i.; hyd. 20, hose con. 2½-in. serv. con. 150; ord. pres. 50 to 60 lb., fire pres. 100 lb.
Rates; meter, 25c. 1000 gal. max., 15c. min

COLUMBUS, 3,064.
MUNICIPAL.
Comr., F. A. Jackson.....Columbus
" Harry Mehaffy..... "
" John Walker..... "
Supt., F. H. Hawkins..... "
Asst. Supt. & Des. Engr.,
C. M. Cooper..... "
Engr. P'g. Sta., Jess Hamilton.... "
Wells, 2 10-in. 1200 ft. deep; ½ mi. from center distribution no purification.
Boilers, 2 tubular 60-hp. ea. Knowles & Freeman; hand stoking; pump, 1-374,000 gal. duplex Buffalo; pumping to reservoir 150,000 gal. & standpipe (1889) iron.
Pipe, 10-in. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Nelson; valves, 22 r. h. thd. Nelson; meters, 350 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 750; ord. pres. 30 to 65 lb., fire pres. 50 to 80 lb.
Rates; flat, 85c. mo.; meter, 40c. 1000 gal. max., 30c. min.

CONCORDIA, 4,415.
MUNICIPAL.
Mayor, W. T. Short.....Concordia
Pres. Comrs., G. W. Tittle..... "
Supt., J. L. Doster..... "
Wells, 12 6-in. 48 ft. deep; ½ mi. from center business section; no purification.
Pumps, 1-1,000,000 gal. comp. duplex Deane 1915, 1-500,000 gal. comp. duplex Deane 1915, 1-500.000 gal. vert. triplex Deane 1906,1-250,000 gal. vert.triplex Deane 1906, belted to elec. motor; purchase energy from Concordia Elec. Lt. & Pwr. Co.; pumping to standpipe (1908) 233,000 gal. steel, Southwestern Bridge Co.
Pipe, 10 mi. 4 to 12-in c. i.; hyd. 102, hose con. 2½-in. Galvin & Ludlow; valves, 58 r. & l. h. opening Galvin & Ludlow; meters, 750 various; av. daily cons. 9,000,000 gal.; serv. con. 750; ord. pres. 65 to 70 lb., fire pres. 65 to 125 lb.
Rates; meter, $1.50 quarter 1200 cu. ft.

CONWAY SPRINGS ,1,292.
Home Telephone, Water & Electric Co.
Mgr., E. J. Frantz.....Conway Springs

Wells, 8 15in. 41 ft. deep; ¾-in. from center distribution; no purification.

Pumps, 2-324,000 gal. ea. Deane d. con. to gasoline engines, 18-hp. Olds; elec. motor 7.5-hp. 220v. 3ph. 60 cys. G. E.; pumping to elev. tank, 70,000 gal. iron.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 16, hose con. 2½-in.; valves, 6 r. h. thd. Crane meters, 130 Hersey, Pittsburg & Neptune; av. daily cons. 90,000 gal.; serv. con. 170; pres. 35 to 45 lb., fire pres. 35 to 100 lb.

Rates; meter, min. charge $1.00 mo. 300 cu. ft., 15c. 100 cu. ft. max., 10c. min.

COUNCIL GROVE, 2,545.

Council Grove Water Supply Co.
Trustee, Wm. E. Stiger,
149 Broadway.....New York
Trustee, Harry G. Runkle
149 Boradway.....New York
Cons. Engrs.,
Tribus & Massa, 86 Warren St. " "
Supt., A. Moses.....Council Grove
Engr. P'g Sta., John Logne.. " "

Neosho River; ¾-in. from center distribution; impounding reservoir, 2-15,000 000 gal.; coagulating basin, 125,000 gal. mechanical filters, 3-850,000 gal.; chemicals, hypochlorite of lime, copper sulphate & sulphate of alumina.

Boilers, 3 hor. tabular 170-hp.; hand stoking; pumps, 3-2,250,000gal. 2 comp & one centrifugal Davidson; pumping to standpipe (1886(iron.

Pipe, 5.5 mi 4 to 6-in. c. i. ; hyd. 52, hose con. 2½-in. Ludlow; valves, 35 l. h. thd. meters, 40 various; av. daily cons. 275,000 gals. serv. con. 300; ord. pres. 40 to 65 lb., fire pres. 80 lb.

DELPHOS, 767.

MUNICIPAL WATER & LIGHT PLANT.
Pres., B. R. Moore.....Delphos
Sec., J. O. Adams..... "
Treas., J. B. Richards..... "
Cont. Agt., City Council..... "
Supt., L. E. Thomas..... "
Engrs. P'g Sta., (E. Minteer..... "
(I. Hildebrand.... "

Shallow wells; power from Delphos Milling Co.

DODGE CITY, 3,214.

MUNICIPAL.
Supt., W. Watson.....Dodge City
Cons. Engrs.,
Worley & Black.....Kansas City, Mo.

Shallow wells.

Rates; meter, min. charge 75c. mo., 35c. 1,000 gal. max., 20c. min.

DOWNS, 1,437.

MUNICIPAL.
Comr., L. R. Krohn.....Downs

Salomon River & wells, 6 10-in. 57 to 6 ft. deep; pumps,

Pump, 432,200 gal. vert. triplex Deane 1914 geared to elec. motor, 35-hp. 2,300 v. G. E. 1914; pumping to standpipe (1894) 100,000 gal.

Pipe, 6 mi. 2 to 6-in. c. & galv. i.; hyd. 32, hose con. 2-in.; valves, 12 r. h. opening various; meters, 255 National, Hersey, Neptune & Buffalo; serv. con. 300; ord. pres. 50 lb., fire pres. 75 lb.

Rates; meter, $4 year.

EL DORADO, 3,129.

MUNICIPAL.
Mayor, C. E. Powell.....El Dorado
Pres. Coners., Lee Scott..... " "
Comr., G. F. Ambrose..... " "
City Clerk, B. F. Allebach..... " "
Supt., W. H. Betz..... " "

Wells near Walnut River, 3 30 ft. in diam. 30 ft. deep, ¾-in. from center distribution; no purification.

Pumps, 2-1,240,000 gal. F. M. driven by gasolene engine, 2 65-hp. F. M.; pumping to reservoir,125,000 gal. & standpipe (1907) iron

Pipe, 15 mi. 4 to 12-in. iron; hyd. 72, hose con. 2½-in.; meters, 450 Neptune Thomson, Pittsburg & Hersey; av. daily cons. 300,000 gal.; serv. con. 500; ord. pres. 70 to 85 lb., fire pres. 100 to 110 lb.

Rates; flat, $1.00 mo. including bath & closet; meter, 25c. 1000 gal. max., 8c. min.

ELLINWOOD, 976.

MUNICIPAL.
Supt., R. K. Heagler.....Ellinwood

Wells, 2 8-in. 140 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 2 fire & water-tube 100-hp. ea. Hawkes; hand stoking; pumps, 2-96,000 gal. Demingd. con. to steam engine, 7-hp. A. B. C. & elec. motor, 6.5 kw. 220 v. 3 hp. 60 cys. Northern; pumping to elevated tank, 50,000 gal. steel.

Pipe, 6 mi. 4 to 12-in.; hyd. 22 hose con. 2½-in. Pratt & Cady; valves, F. M.; meters, 100 National; av. daily cons. 20,000 gal.; serv. con. 100; ord. pres. 45 to 52 lb., fire pres. 125 to 140 lb.

Rates; all meter, 15c. 1000 gal. max., 10c. min.

ELLIS, 1,404.

MUNICIPAL. Ellis Electric Light & Water Plant.
Chmn. Comrs., A. Kastner.....Ellis
Comr., Chas. Keagy..... "
Comr., A. Muhlheim, Jr..... "
Town Clerk, R. T. Payne..... "
Supt. & Engr. P'g Sta., Ray C. Gall.. "

Big Creek & wells, 2 6 to 18 ft. in diam. 30 to 35 ft. deep; near center business section; no purification.

Boilers, 2 water-tube 150-hp. 150 lb. Murray 1909; pumps, one vert. triplex Deane 1914, 1-100,000 gal. hor. duplex Deane 1909, d. con. to elec. motor, 15-hp. 220 v. 3 ph. 60 cys. G. E. 1914; steam engine, 150-hp. Murray 1909; pumping to standpipe (1905) 127,500 gal. steel, Murray Iron Works.

Pipe, 6 mi. 4 & 6-in. c. i.; hyd. 27, hose con. 2½-in. Bourbon; valves, 26 l. h. opening Crane; meters, 40 various; av. daily cons. 50,000 gal.; ord. pres. 45 to 125 lb., fire pres. 125 lb.

Rates; meter, 75c. mo., 15c. 1,000 gal.

ELLSWORTH, 2,041.
MUNICIPAL.
Comr., W. Clyde Wolfe.....Ellsworth
Engr. P'g. Sta., John Hammond... "
Well, 30 ft. in diam. 42 ft. deep; no purification.
Boilers, 2; hand stoking; pumps, 2-636,000 gal. Deane d. con. to steam engine; pumping to elevated tank (1876) wood.
Pipe, 5.4 mi. 4 to 12-in. c. i.; had. 65, hose con. 2-in. Kupferle; valves, 22 r. h. thd.; meters, 335 Pittsburgh; av. daily cons. 65,000 gal.; serv. con. 335; ord. pres. 60 to 100 lb., fire pres. 100 to 120 lb.
Rates; meter, 30c. 1000 gal.

EMPORIA, 9,058.
MUNICIPAL.
Mayor. R. N. Homer.....Emporia
Comr., W. A. Lawler..... "
" D. A. Dryer..... "
Supt., W. J. Reynolds..... "
Neosho River; 4.5 mi.. from center distribution; coagulating basins, 2-7,500,000 gal. ea.; chemicals, lime & sulphate of alumina.
Pumps, 2-2,000,000 gal. American d. con. to elec. motors, 2-100 kw. 2300 v. d. c. G. E.; elec. energy from Emporia Ry. & Lt. Co.
Pipe, 38.5 mi. 4 to 12-in. c. i.; hyd. 197, hose con. 2½-in.; valves, 362 r. & l. h. thd.; meters, 2400 Pittsburgh & Hersey; av. daily cons. 1,300,000 gal.; serv. con. 2400; 2400; ord pres. 28 to 35 lb., fire pres. 60 to 125 lb.
Rates; meters, 28c. 1000 gal. max., 7c. min.

ENGLEWOOD, 518.
MUNICIPAL.
Cons. Engrs.,
Worley & Black.....Kansas City, Mo.
Shallow wells.

ENTERPRISE, 796.
Municipal; shallow well.

ERIE, 1,300.
Municipal; shallow well.

EUREKA, 2,333.
MUNICIPAL; shallow wells.

FLORENCE, 9,058.
F. E. Patterson, Owner. Office, 1258 McCormick Bldg., Chicago, Ill.
Supt. & Engr. P'g. Sta., D. W. Waterman.....Florence
Infiltration galleries along Cottonwood River; ¾ mi. from center distribution; settling basin, 235,000 gal.; chemicals, none.
Boilers, 2 return tubular 50-hp. ea. Draby; hand stoking; pumps, 2-400,000 gal. ea. Deane; pumping to standpipe (1888) stone & steel & elevated tank, 83,000 gal. steel.
Pipe, 3.25 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Holly; valves, 24 l. h. opening Holly; meters, 42 National; av. daily cons. 20,000 gal.; serv. con. 101; ord. pres. 45 to 70 lb., fire pres. 60 to 85 lb.

FORT SCOTT, 10,463.
MUNICIPAL.
Comr., F. D. Martin.....Fort Scott
Supt., James Burton..... " "
Marmaton River; reservoirs, 4-1,250,000 gal. ea. chemicals, sulphate of alumina & soda ash.
Boilers, 3 hor. 8.5-hp Kewanee; pumps, 1-2,500,000 gal. comp. c. & f. wh. Platt, 1-3,000,000 gal. vert. Allis C.; pumping direct & to standpipes, 2-250,000 gal.
Pipe, 30 mi. 4 to 16-in. c. i.; hyd 200 ludlow & Chapman; valves, 200 Ludlow; meters 1700 various; av. daily cons. 1,250,000 gal. serv. con. 2000; ord. pres. 30 to 80 lb.
Rates; meter, 25c. 1000 gal. max., 7c. min.

FOWLER, 476.
MUNICIPAL.
Cons. Engrs.,
Worley & Black.....Kansas City, Mo.
City Clerk,.....Fowler
Wells.

FRANKFORT, 1,426.
MUNICIPAL.
Mayor, J. L. Dalton.....Frankfort
City Clerk, T. W. Snodgrass..... "
Comr. & Supt., S. E. McKee.... "
Well; ¾ mi. from center distribution; no purification.
Pump, 1-432,000 gal. Deming; elec. energy from Frankfort Lt. & Pwr. Co.; pumping to standpipe (1907(steel.
Hyd. hose con. 3-in.; av. daily cons. 125, 000 gal.; serv. con. 225; ord pres. 65 to 70 lb.

FREDONIA, 3,040.
MUNICIPAL.
Mayor, J. W. Moss.....Fredonia
Comr., T. D. Hampson..... "
" W. S. Cady..... "
Supt., C. B. De Far.....
Cons. Engrs., Worley & Black..Kansas City
Fall River & well, 30 ft. in diam. 40 ft. deep; 2½ mi. from center distribution; chemical, hypochlorite of lime.
Boilers, 2 hor. tubular 50-hp. Kewanee; pumps 2-1,870,000 gal, Deane pumping to reservoir, 1,750,000 gal.
Pipe, 13 mi. 4 to 12-in c. i.; hyd. 75 hose con. 2½-in. R. D. W. & Chapman; valves, 65 r. & l. h. thd. various; meters, 475 various av. daily cons. 330,000 gal.; serv. con. 900; ord. pres. 55 to 70 lb., fire pres same.
Rates; flat, 50c. mo.; meter, 25c. 1000 gal.

FRONTENAC, 3,396.
Mayor, Antorni Murghini.....Frontenac
Supt., Chas. Friskill..... "
City Clerk, Wm. Monahan..... "
Wells, 2 8¼-in. 1046 & 1064 ft. deep; reservoir, 300,000 gal.
Pumps, 1-310,000 gal. & 2-360,000 gal. ea. Lintweiler & Pomonia d. con. & belted to elec. motors, 2-2300 & 1-220 v. 3 ph. 60 cys. G. E.; pumping to elevated tank, 75,000 gal. steel.
Hyd. 28, hose con. 2½-in. Pratt & Cady; valves, 30 r. h. thd. Crane; meters, 14 Worth. av. daily cons. 100,000 gal.; serv. con. 600; ord. pres. 35 to 43 lb., fire pres. 125 lb.
Rates; flat, 50c. mo.; meter, 50c. 1000 gal.

GALENA, 6,096.
MUNICIPAL.
City Engr., W. S. Ricksecker.....Galena
Shoal Creek.

GARDEN CITY, 3,171.
MUNICIPAL.
Mayor, A. H. Burtis.....Garden City
Comr., Homer Norris..... " "
" S. W. Horner..... " "
City Clerk, J. F. Crocker..... " "
Supt., V. E. Rockefeller..... " "
Engr. P'g Sta., Geo. Abbott.... " "
Wells, 6 12-in. 22 & 25 ft. deep; ½ mi. from center distribution; no purification.
Boilers, 2 hor. fire-tube 125-hp. ea. 125 lb. Kewanee 1908, one hor. fire-tube 125-hp. 125 lb. Bromick 1914; hand stoking; pumps, one hor. comp. d. act. Advance, 2 hor. comp. d. act. Buffalo, 2-360,000 gal. hor. Platt 1914 d. con. to elec. motors, 2 a. c. 15-hp. 220 v. 3 ph. 60 cys. Ft. Wayne 1914; steam engines, 275 & 125 kw. Russell 1914; elec. generators, 2 75 & 125 kva. Ft. Wayne; pumping to standpipe.
Pipe, 6.75 mi. 4 to 10-in. c. i.; hyd. 60, hose con. 2½-in. Kupferle; valves, r. & l. h. opening; meters, 375 Buffalo, National, Neptune & Pittsburgh; av. daily cons. 325,000 gal.; serv. con. 400; ord. pres. 32 to 39 lb., fire pres. 80 to 75 lb.
Rates; meter, 50c. mo., 10c. 1,000 gal.

GARNETT, 2,334.
MUNICIPAL.
Cons. Engrs., Worley & Black.....Kansas City, Mo.
City Clerk,.....Garnett
Impounding reservoir.

GAS, 1,281
MUNICIPAL. Supplied by Iola.
Supt., H. W. Chaney.....Gas
Av. daily cons. 85,000 gal.; serv. con. 100; ord. pres. 45 to 65 lb., fire pres. 70 lb.
Rates; flat, $5 year; meter, 20c. 1000 gal.

GIRARD, 2,446.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Supt., A. L. Parker.....Girard
Engr. P'g. Sta., Robert Sharp..... "
Deep wells.

GLASCO, 720.
MUNICIPAL.
Supt., Chester Halderson.....Glasco
Well, open 42 ft. deep; ½ mi. from center distribution.
Pump, 1-160,000 gal. Platt driven by elec. motor, 10 kw. 220 v. 3 ph. 60 cys. Ft. Wayne; pumping to standpipe (1912) 50,000 gal.
Pipe, c. i.; hyd. 24, hose con. 2½-in.; valves, 14 r. h. thd Iowa; meters, 90 North; av. daily cons. 20,000 gal.; serv. con. 90; ord. pres. 46 to 50 lb., fire pres same.
Rates; meter, min. charge $2.25 quarter, 30c. 1000 gal.

GLEN ELDER, 565.
MUNICIPAL; shallow well.

GOODLAND, 1,093.
MUNICIPAL.
City Clerk, E. W. Sullivan.....Goodland
Deep well.

GREAT BEND, 4,622.
GREAT BEND WATER & ELECTRIC CO. (CONTROLLED BY INTERSTATE ELECTRIC CORPORATION, 115 BROADWAY, NEW YORK).
Pres., C. V. Brinkman.....Great Bend
V. Pres. Mgr. J. R. Murphy,... " "
Sec., F. V. Russel..... " "
Treas., A. E. Fitkin.....New York
Supt., John Brown..... " "
Treas., A. E. Fitkin.....New York
Supt., John Brown.....Great Bend
Cons. Engr.,
Roosevelt & Thompson,
71 Broadway, New York
Engr. P'g. Sta., F. A. Clark....Great Bend
Wells, 26 8-in. 78 ft. deep; ¾ in. from center distribution; no purification.
Boilers, 2 return tubular 170-hp. Terre Haute; hand stoking & oil burners; pumps, 3-2,880,000 gal. Buffalo & Deane; elec. motor, 100 hp. 2300 v. 3 ph. 60 cys. Western; pumping to standpipe (1888) steel.
Pipe, 9.5 mi. 4 to 12-in.; hyd. 75, hose con. 2½-in. White, Rensselaer & Eddy, valves, 57 r. & l. h. thd. Rensselaer & Ludlow; meters, 420 Neptune, National & Badger av. daily cons. 210,000 gal.; serv. con. 426; ord. pres. 35 to 62 lb., fire pres. 100 lb.
Rates; meter, 37½c. 1000 gal. max., 20c. min.

GREENLEAF, 781.
MUNICIPAL.
Mayor, F. Vicory.....Greenleaf
Comr., John Parks..... "
" J. Q. Ayres..... "
Wells, 3 10-in. 100 ft. deep; ¼ mi. from center business section.
Pumps, 1-108,000 gal. vert. simple c. & f. wh. American 1913, 1-170,000 gal. vert. simple c. & f. wh. American 1913; oil engines, 2 12 & 15-hp. F. M. 1913; pumping direct & to standpipe (1888).
Pipe, 3 mi. 3 to 8-in. c. i.; hyd. 50, hose con. 3½-in.; valves, 12 l. h. opening; meters, 60; av. daily cons. 90,000 gal.; serv. con. 235; ord. pres. 37 to 52 lb., fire pres. 49 lb.
Rates; meter, $2 quarter 4000 gal.

HALSTEAD, 1,004.
MUNICIPAL.
Supt., F. G. Lentz.....Halstead
Little Arkansas & wells, 4 6&8-in. 95 to 135 ft. deep; ¾ mi. from center distribution no purification.
Pumps, 2-320,000 gal. Platt driven by gas engines, 2 25-hp. Olds; pumping to elevated tank, 50,000 gal. steel
Hyd. 41, hose con. 4-in. Rensselaer; valve, 20 r. l. thd.; meters, 243 Pittsburg & Standard; av. daily cons. 50,000 gal.; serv. con. 243; ord. pres. 45 lb., fire pres. 350 lb.

HANOVER, 1,039.
MUNICIPAL.
Supt., J. G. Granzer.....Hanover
Well, 12 ft. in diam. 48 ft. deep; ½ mi. from center business section; no purification.
Pumps, 1-159,200 gal. vert. triplex F. M. 1901, 1-288,000 gal. vert. triplex Olds 1904; belted to gasoline engines 2 22 & 35-hp. F. M. & Olds; purchase energy from Hanover Roller Mills; pumping direct & to standpipe (1895) 55,000 gal.
Pipe, 3.5 mi. 4 to 8-in. c. i.; hyd. 31, hose con. 2½-in. Anderson; valves, 22 r. h. opening; meters, 42 Neptune & Pittsburgh; av. daily cons. 35,000 gal. 70%; serv. con. 129; ord. pres. 45 to 75 lb., fire pres. 55 to 90 lb.
Rates; flat, $1.25 quarter, bath 75c, closet 75c; meter, $1 quarter, 20c 100 cu. ft.

HARPER, 1,638.
MUNICIPAL.
Pres. Comrs., W. G. Muir.....Harper
City Clerk, A. C. Crocker..... "
Shallow wells.

HAVENSVILLE, 412.
MUNICIPAL.
Mayor, J. E. McManis.....Havensville
Shallow wells.

HAYS, 1,961.
MUNICIPAL; shallow wells.

HERRINGTON, 3,273.
MUNICIPAL.
Supt., E. J. Wolcott.....Herrington
Springs; reservoir, 100,000 gal.
Pumps, 2-360,000 & 216,000 gal. Platt driven by elec. motors, 20 & 35-hp. 220 & 2200 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1908) steel.
Pipe, 9 mi. 4 to 10-in. c. i.; hyd. 51, hose con. 2½-in; valves, 24 r. h. thd. Ludlow; meters, Neptune & Pittsburg; av. daily cons. 100,000 gal.; serv. con. 234; ord. pres. 65 to 74 lb.

HIAWATHA, 2,974.
MUNICIPAL.
Mayor. Geo. C. McKnight.....Hiawatha
City Clerk, J. W. Leibengood.... "
Comr., Framk Meisenheimer..... "
Supt., V. L. Dawson..... "
Engr., P'g. Sta., Earl Round..... "
Spring & well, 3 12 ft. in diam. 30 ft. deep; 2½ mi. from center distribution; no purification.
Boilers, 2 return tubular 100-hp. ea. Murray; fuel oil; pumps, 4-576,000 gal. ea. Deane & American; elec. motors, 2 50-hp. 2200 v. 3ph. 60 cys. Westg.; elec. generator, 75 kw. 2200 v. a. c.; pumping to standpipe (1887) iron & surplus to reservoir, 450,000 gal.
Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 57 hose con. 2½-in.; meters, 600 Buffalo; av. daily cons. 200,000 gal.; serv. con. 40 to 55 lb., fire pres. 50 to 100 lb.
Rates; all meter, 30c. 1000 gal. max., 15c. min.

HIGHLAND, 763.
MUNICIPAL; shallow wells.

HILL CITY, 983.
MUNICIPAL.
Supt. & Engr. P'g. Sta., L. P. Sims. Hill City
Wells, 20 ft. in diam. 28 ft. deep; slow sand filter, 150,000 gal.
Pumps, 1-150,000 gal. Platt driven by oil engines, 2 40 & 80-hp. St. Marys 1912; elec. generators, 2 87½ & 50 kva., Northern; pumping to standpipe (1912) 75,000 gal.
Pipe, 6 mi. c. i.; hyd. 25, hose con. 3½-in.; valves, 5 r. h. opening; meters, 90 Neptune; avl daily cons. 40,000 gal. 90%; serv. con. 90; ord. pres. 60 to 72 lb., fire pres. same.
Rates; meter, 50c mo. 2000 gal.

HOISINGTON, 1,975.
MUNICIPAL; shallow wells.

HOLTON, 2,842.
MUNICIPAL.
Comr. C. W. Thomson.....Holton
Supt., P. J. Forsythe..... "
Engr., P'g. Sta. M. Monroe..... "
Wells, 3 8-in. 100 ft. deep; reservoir, 400,000 gal.; settling basin, 200,000 gal.; chemical, hypochlorite of lime.
Boilers, 3 fire-tube 110-hp.; hand stoking pumps, 2-1,000,000, Worth & Westg.; elec. motor, 14 kw. 2300 v. 3ph. 60 cys. Westg.; elec. energy from municipal plant; pumping direct.
Hyd. 42, hose con. 3½-in. Pratt & Cady; valves, 40 r. h. thd.; meters, 340 Worth & Buffalo; av. daily consumption 150,000 gal.; serv. con. 375; ord. pres. 50 to 60 lb., fire pres. 100 lb.
Rates; all meter, 60c. 1000 gal. max., 25c. min.

HOLYROOD, 361.
MUNICIPAL.
Mayor, A. J. Pokorny.....Holyrood
City Clerk & Supt.,
Sherman Andrea.....Holyrood
Wells, 2 tubular 120 ft. deep; ¾mi. from center distribution; no purification.
Pumps, 2 driven by gasolene engine, Ingeco & elec motor, 15-hp. 2300 v. 3 ph. 60 cys. F. M.; pumping to standpipe (1901) 44,000 gal.
Hyd. 39; serv. con. 50; ord. pres. 70 lb.
Rates; meter, min. charge $1,00 400 cu. ft., 15c. 100 cu .ft.

HORTON, 4,658.
MUNICIPAL. HORTON WATER & LIGHT Co.
Mayor, J. F. Bailey.....Horton
City Clerk, N. J. Ayers..... "
Supt., W. W. Wood..... "
Engr. P'g. Sta., G. A. Straib..... "
Impounding reservoir, 45,000,000 gal.; ¾ mi. from center distribution; settling basin, 500,000 gal.; mechanical filters, 2-250,000 gal. ea.; chemical, sulphate of alunina.
Boilers, 3 hor. 100-hp. Erie, hand stoking;

pumps, 3-1,000,000 gal. Snow and American; elec. motors, 50 kw. 2300 v. 3 ph. 60 cys. G. E.; elec. energy from light plant in connection; pumping to standpipe, steel.

Pipe, 5.5 mi., 4 to 12-in. c. i.; hyd. 54 hose con. 2½-in.; valves, 32; meters, 230 Neptune; av. daily cons. 60,000 gal.; serv. co . 230; ord. pres. 60 to 90 lb., fire pres. 60 to 305 lb.

Rates; all meter, 45c. 1000 gal. max., 27c. min.

HUMBOLDT, 2,548.

MUNICIPAL.

Chmn. Comrs., J. J. Amos.....Humboldt
Supt. & Dis. Engr., H. M. Riggs "
City Clerk, Chas. H. Schaffner.. "

Neosho River and well, 18 ft. in diam., 20 ft. deep; near center distribution.

Boilers, 2 40-hp. ea. Kewanee; natural gas fuel; pumps, 2-20,000 gal. Deane; pumping direct and to elevated tank, 70,000 gal. iron.

Pipe, 5 mi. 4 to 12-in.; hyd. 56, hose con. 4½-in. Rensselaer; valves, 4 r. and l. h. thd. Deane, meters, 250 Buffalo and Pittsburgh; av. daily cons. 20,000 gal.; serv. con. 250; ord. pres. 50 to 60 lb., fire pres. 70 to 75 lb.

Rates; meter, 25c. 1000 gal. max., $c. min.

HUTCHINSON, 16,364.

THE UNITED WATER, GAS & ELECTRIC Co. (Controlled by Cities Service Co., 60 Wall St., New York.)

Pres., Henry L. Doherty.....New York
Gen. Mgr., J. F. Springfield....Hutchinson
Sec. & Treas., Walter Grundy.. "
Supt., James Holt..... "
Engr. P'g. Sta., F. O. Swenson. "

Wells, 45 6 to 10-in. 55 to 90 ft. deep; ¼ mi. from center distribution.

Boilers, 5 304-hp. Sterling and B. & W.; oil fuel; pumps, 6-12, 500,000 gal. driven by steam turbine and elec. motors, 315-hp. 2200 v. 2 ph. 60 cys. Westg. and Wagner; elec. energy from plant in connection; pumping direct.

Pipe, 40 mi. 4 to 12-in. c. i.; hyd. 360, hose con. 4-in. Holly and Chapman; valves, 150 Western; meters, 3000 National and Pittsburgh; av. daily cons. 2,500,000 gal.; serv. con. 3000; ord. pres. 55 lb., fire pres. 110 to 120 lb.

Rates; all meter, 30c. 1000 gal. max., 10c. min.

INDEPENDENCE, 10,480.

MUNICIPAL.

Mayor, C. H. Kerr.....Independence
Comr., C. L. Wint..... "
" J. G. Fowler..... "
City Clerk, G. H. Krienhagen "
Supt., J. C. Gordan..... "
Consulting Engr., W. Kiersted, 640 Midland Bldg, Kansas City
Eng., P'g. Sta., O. E. Weaver, Independence

Verdigris River; one mi. from center distribution; impounding reservoirs, 4-4,200,000 fal.; settling and coagulating basins, 8,000,000 gal.; slow sand filters, 4,500,000 gal.; chemical, sulphate of alumina.

Boilers, 3 return tubular 100-hp. ea. Atlas; natural gas fuel; pumps, 1-4,000,000 gal. comp. Allis C., 1-3,000,000 gal. Straight, 1-1,500,000 gal. centrifugal Worth., 2-1,500,000 gal. ea. comp. duplex Gardner; pumping direct.

Pipe, 25 mi. 4 to 14-in. c. i.; hyd. 154, hose con. 2½ and 3-in. mostly Rensselaer; valves, r. and l. h. thd.; meters, 350 Pittsburgh, Thomas and Hersey; av. daily cons. 1,500,000 gal.; serv. con. 2300; ord. pres. 40 to 65 lb., fire pres. 100 to 130 lb.

Rates; flat, $6 year, bath $2.50, closet $2.50; meter, min. charge 50c. month., 23c. 1000 gal. max., 6c. min.

IOLA, 9,032.

MUNICIPAL.

Mayor, J. J. Verner.....Iola
Comr., Geo. Freeman..... "
" & Supt., C. E. Stebbins..... "
Engr. P'g. Sta., T. R. Bartlett..... "

Neosho River; 2 mi. from center distribution; settling and coagulating basins, 2-3,000,000 gal. ea.; chemicals, hypochlorite of lime, iron sulphate and lime.

Boilers, 3 water-tube 200-hp. Heien; fuel, gas; pumps, 2 Worth.; air compressor, one; elec. motor, 3 25-hp. 110 and 220 v. single ph. 60 cys. Wagner and 2 G. E.; pumping direct.

Pipe, 3.5 mi. 4 to 14-in. c. i.; hyd. 115, hose con. 3-in. Rensselaer, valves, 148 r. h. thd.; meters, 484 Pittsburgh; av. daily cons. 1,690,000 gal.; serv. con. 1423; ord. pres. 40 to 60 lb., fire pres. 80 to 100 lb.

Rates; meter, 15c. cu. ft. max., 4½c. min.

JAMESTOWN, 462.

MUNICIPAL.

Mayor, John Kelley.....Jamestown
Town Clerk, Wm. Barton..... "
Supt. & Engr. P'g. Sta., H. W. Van Cenbark..... "

Wells, 2 10- in. 160 ft. deep; no purification.

Pumps, 2-84,000 gal. ea. vert. c. & f. wh. Deane 1910; elec. motors, 2 7½ & 15-hp. 220 v. 3 ph. 60 cys. Westg. 1909; pumping to elev. tank (1909) 36,000 gal. steel, Des Moines Bridge & Iron Works.

Pipe, 2 mi. 4 & 6-in. c. i.; hyd. 14, hose con 2½-in. Rensselaer; valves, 5 l. h. opening; meters, 99 Pittsburgh; av. daily cons. 21,000 gal. 82%; serv. con. 100; ord. pres. 60 to 125 lb., fire pres. 38 to 90 lb.

Rates; 75c mo. 2500 gal., 30c 1000 gal.

JEWELL CITY, 839.

MUNICIPAL; impounding reservoir.

JUNCTION CITY, 5,598.

MUNICIPAL.

Comr., M. H. Foss.....Junction City

Supt., J. H. Rathert.....Junction City
Wells, 36 6 to 24-in. 60 ft. deep; 1½ in. from center distribution, no purification.
Boilers, 2 fire-tube 75-hp. Kewanee; hand stoking; pumps, 4-1,500,000 and 2,000,000 gal. L.-D. G.; air compressor, L-D-G.; pumping direct and to reservoir, 500,000 gal.
Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 100, hose con. 2½-in. R. D. W.; valves, 136 r. and l. h. thd. Ludlow and Eddy, meters, 1500 Pittsburgh abd Buffalo; av. daily cons. 621,000 gal., serv. con. 1500; ord. pres. 80 to 100 lb., fire pres. same.
Rates; all meters, 20c. 1000 gal. max., 5c. min.

KANSAS CITY, 82,331

MUNICIPAL.
Comr., J. A. Cable.....Kansas City
Supt., David Douglas..... " "
Cons. Engr., W. Kiersted..... " "
Missouri River; 2.75 north center business section; settling basins, 3-8,500,000 gal. concrete & 2-730,000 gal. steel; mech. filters, Jewell; clear water basin, 3,000,000 gal.
Boilers, one water-tube 300-hp. 150 lb. B. & W. 1903, one water-tube 250-hp. 150 lb. Heine 1904, 4 water-tube 300-hp. ea. 150 lb. Heine 1910, 2 water-tube 500-hp. ea. 150 lb. Bonus 1912; mechanical stokers, Jones; pumps, 1-15,000,000 gal. hor. comp. c. & f. wh. Strait 1911 d. con. to centrifugal pump; 1-8,000,000 gal. vert. tri. exp. c. & f. wh. Holly 1898; 1-3,000,000 gal. hor. comp. duplex Blake 1886, 1-12,000,000 gal. hor. comp. duplex c. & f. wh. Snow 1911, 1-9,000,000 gal. hor. comp. duplex Worth. 1886, 1-6,000,000 gal. hor. comp. duplex Worth. 1905, 1-2,500,000 gal. hor. comp. duplex Worth. 1886; pumping direct.
Piep, 107 mi. 4 to 30-in. c. i.; hyd. 827, hose con. 2½ & 4-in. R. D. W., Chapman & Ludlow; valves, 465; meters, 5250; av. daily cons. 7,960,000 gal.; serv. con. 9399; ord. pres. 20 to 125 lb.

KENSINGTON, 497.

MUNICIPAL. KENSINGTON FIRE CO.
Supt., O. H. Hinman.....Kensington
Wells, 2 10 and 20-in. 46 and 64 ft. deep; ¼ mi. from center distribution; no purification.
Pumps, 1-864,000 gal., 1-360,000 gal. driven by gasoline engines, 2 20 and 50-hp. Ingeco and F. M.; pumping direct and to elevated tank, 75,000 gal. steel.
Hyd. 24, hose con. 3-in.; meters, 130 National; av. daily cons. 150,000 gal.; serv. con. 135; ord. pres. 50 lb., fire pres. 65 lb.
Rates; meters, 15c. 1000 gal.

KINGMAN, 2,570.

MUNICIPAL.
Mayor, Geo. A. Almond.....Kingman
Comr., Chas. Fowler..... "
" Carl Leach..... "
Supt., J. R. Hamilton..... "
Engr. P'g. Sta., L. Craig.....Kingman
Impounding reservoirs, 2-525,000 gal. & wells, 11 4-in. 40 & 50 ft. deep; ½ mi. from center business section; settling basins, 2.
Pumps, 1-500,000 gal. vert. triplex Aldrich 1905 geared to elec. motor, 20-hp. 2300 v. 3 ph. 60 cys. a. c. G. E. 1913, 1-500,000 gal. vert. triples Aldrich 1905 geared to gasoline engine, 2 25-hp. Olds 1905; pumping to elev. tank (1905) 70,000 gal.
Pipe, 10 mi. 4 to 8-in. c. i. & wood; hyd. 55; valves, 30 r. h. opening; meters, 537 National, Neptune & Pittsburgh; av. daily cons. 225,000 gal.; serv. con. 550; ord. pres. 50 to 70 lb., fire pres. 70 to 130 lb.

KINSLEY, 1,547.

MUNICIPAL.
Supt., S. T. Manuel.....Kinsley
Engr. P'g. Sta., A. L. More..... "
Well; ½ mi. from center distribution; no purification.
Pumps, 4-576,000 gal. Worth. and F. M. belted to gasoline engine, 60-hp. Otto and elec. motor, 25 kw. 3 ph. 60 cys. Westg.; elec. energy from Kinsley St. and Pwr. Co.; pumping to standpipe (1887) iron.
Hyd. 38, hose con. 3-in. Chapman and Iowa; valves, 20 l. h. thd. Chapman; meters, 230 Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 250; ord. pres. 40 to 57 lb., fire pres. 100 lb.
Rates; flat, $1.00 mo.; meter, 15c. 1000 gal. max., 10c. min.

KIOWA, 1,526.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Supt., Rose Perry.....Kiowa
Engr. P'g. Sta., C. O. Perry..... "
Shallow wells.

LA CYGNE, 957.

MUNICIPAL.
Mayor, C. C. Wuttke.....La Cygne
Supt., Ben Whitmore..... " "
Well, 25 ft. in diam. 40 ft. deep.
Boilers, 2 80 hp. Erie; pump, 1-720,000 gal. Canton; pumping to elevated tank, 70,000 gal. iron.
Pipe, 3.5 mi. 4 to 8-in.; hyd. 23, hose con. 2½-in.; av. daily cons. 30,000; serv. con. 87; ord. pres. 21 to 42 lb.
Rates; flat, 75c. mo.

LA HARPE, *1,000.

MUNICIPAL.
Supt. & Engr. P'g. Sta.,
A. F. Davis.....La Harpe
Elm Creek; 3.5 mi. from center distribution; no purification.
Pumps, 1-16,000 gal. vert. F. M. 1902 driven by gasoline engines, 22 & 25-hp. F. M. 1902; pumping to elev. tank (1902) 70,000 gal. steel.
Hyd. 30, hose con. 3-in.; valves, 12 l. h. opening; ord. pres. 35 lb.
Rates; flat, $1.25 quarter, bath 50c.; meter 1000 gal. max., 4c min.

LANSING, 712.
Owned by State of Kansas.
Pres. Bd., W. L. Brown.....Kingman
Treas., C. M. Haryer.....Abilene
Sec., J. E. Porter.....Kansas City
Supt. & Engr. P'g. Sta.,
D. L. Temple.....Lansing
Chemist,
State University.....Lawrence
Missouri River; 1.5 mi. from center business section; settling basins, 2-500,000 gal.; mech. filters, 250,000 gal. N. Y. C. Jewell; chemicals, sulphate of alumina & hypochlorite of lime.

Boilers, 3 tubular 60-hp. 80 lb. 1895; hand stoking; pumps, 2-300,000 gal. hor. simple d. act. L-D-G. 1895.

Pipe, 2 mi. 4 to 8-in. c. & w. i.; hyd. 30, hose con. 2½-in. various; valves, 8 r. h. opening various; meters, 15 various; av. daily cons. 250,000 gal. 10%; ord. pres. 45 to 100 lb., fire pres. same.

Rates; meter, 75c mo., 25c 1000 gal.

LARNED, 2,911.
MUNICIPAL.
Mayor, Edw. S. Lunda.....Larned
Chmn. Comrs., Mark Kronch..... "
Comr., H. N. Reed..... "
" George Lawrence..... "
Sec. & Supt., L. D. Burgess..... "
Cons. Engrs.,
Worley & Black.....Kansas City, Mo.
Engr. P'g. Sta., F. H. Baxter.....Larned
Chemist, C. A. Haskins.....Lawrence
Wells, one open 20-ft. in diam. 25 ft. deep, 2 8-in. 145 ft. deep; ¾ mi. from center business section; no purification.

Boilers, 2 hor. tubular 80-hp. 220 lb.; hand stoking; pumps, 2-750,000 gal. hor. comp. d. act. Deane 1887, 2-125,000 gal. vert. duplex Keystone Driller 1913, d. con. to elec. motors, 2 20-hp. s. ph. 60 cys. Century 1913; purchase energy from local Elec. Lt. & Ice Co.; pumping to standpipe (1886) 85,000 gal.

Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 117, hose con. 2½-in. Nelson; valves, 43 l. h. opening various; meters, 550 National & Hersey; av. daily cons. 150,000 gal. 75%; serv. con. 550; ord. pres. 55 to 83 lb., fire pres. 82 to 115 lb.

Rates; flat, $6 year, bath $2.50, closet $5; meter, 50c mo. 1000 gal., 50c 1000 gal. max., 8c min.

LAWRENCE, 12,374.
LAWRENCE WATER CO.
Receiver J. H. Mitchell.....Lawrence
Shallow wells.

LEAVENWORTH, 19,363.
LEAVENWORTH WATER CO.
V. Pres., W. G. Hewitt.....Leavenworth
Missouri River.

LEBANON, 731.
MUNICIPAL.
Supt., C. O. Lund.....Lebanon
Engr. P'g. Sta., T. C. Thompson.. "
Wells near small stream, 3 open 20 ft. deep; water filters through sand bed of steam.

Pump, 1-360,000 gal. Deane d. con. to gasolene, 25-hp. F. M.; pumping to elev. tank, 50,000 gal. iron.

Pipe, 6.5 mi. 4 to 6-in.; hyd. 15 Bourbon; valves, 10 r. h. thd. Ludlow; meters, 120 meters, 120 National and Neptune; av. daily cons. 15,000 gal.; serv. con. 138; ord. pres. 50 to 55 lb., fire pres. 90 to 100 lb.

LIBERAL, 1,716.
MUNICIPAL.
Supt. & Engr. P'g. Sta.,
Sam Hubbard.....Liberal
Wells, 3 4 and 6-in. 180 ft. deep; no purification.

Pumps, 3-144,000 gal. Luitweiler and F. M. driven by elec. motors, 2 8 and 15-hp. 220 v. 3 ph. 60 cys. Westg. and G. E.; pumping direct and to elevated tanks, 2-54,0000 and 86,000 gal. iron.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 26, hose con. 2¾-in.; valves, 30 r. h. thd.; meters, 126 Pittsburgh; av. daily cons. 55,000 gal.; serv. con. 360; ord. pres. 44 to 48 lb., fire pres. same.

Rates; flat, $1.00 mo., bath 25c., closet 25c.; meter, min. charge $1.00 mo., 25c. 1000 gal. max., 20c. min.

LINCOLN, 1,508.
MUNICIPAL LIGHT & WATER PLANT.
Supt., M. J. Rees.....Lincoln
Treas., E. Rees..... "
Engr. P'g. Sta., W. A. Metzger..... "
Shallow wells; boiler, 250-hp.; steam engines, 200-hp. Ideal.

LINDSBORG, 1,939.
MUNICIPAL WATER & ELECTRIC LIGHT PLANT.
Mayor, C. F. Rosime.....Lindsborg
City Clerk, Andrew Monson.... "
Supt., N. H. Balin..... "
Engr. P'g. Sta., J. W. Bishop. "
Shallow wells; boiler, 180-hp. Atlas; steam engine 300-hp.

Rates; meter, min. charge 50c 2000 gal., 20c 1000 gal. max., 8c. min.

LUCAS, 573.
MUNICIPAL.
Supt. & Engr. P'g. Sta., F. O. Barr...Lucas
Mayor, G. M. Cook..... "
Impounding reservoir, 110,000 gal. & wells, 3 7-in. to 20 ft. in diam. 36 to 48 ft. deep; near center business section; no purification.

Pumps, one vert. triplex Fairbanks 1910 geared to oil engines, 2 25 & 50-hp. Fairbanks 1910, one vert. triplex geared to elec. motor, 10-hp. 220 v. 3 ph. 60 cys. G. E. 1914; elec. generators, 50 kva. Ft. Wayne; pumping to reservoir, 55,000 gal. & elev. tank (1910) 65,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 34, hose

con. 3-in.; valves, 14 r. h. opening; meters, 150 Neptune & National; av. daily cons. 15,000 gal. 80%; serv. con. 160; ord. pres. 55 to 60 lb., fire pres. 110 to 125 lb.

Rates; meter, $1 mo. 4000 gal., 25c 1000 gal. min.

LURAY, 341.

MUNICIPAL.

City Clerk, O. J. Stevenson.....Luray

Shallow wells.

LYNDON,763.

MUNICIPAL.

Cons. Engrs.,

Worley & Black.....Kansas City, Mo.

City Clerk, ...Lyndon

Salt Creek; pumps, one 3-in. hor. centrifugal d. con. to elec. motors.

LYONS, 2,071.

MUNICIPAL.

Mayor, M. B. McNair.....Lyons

Engr. P'g. Sta., Sam'l Dinsore..... "

Wells; ½ mi. from center distribution.

Boilers, 2 tubular 125-hp. Kewanee; hand stoking; pumps, 3 F. M. driven by steam engine; pumping direct.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 53, hose con. 2½-in. Ludlow and Rensselaer; av. daily cons. 200,000 gal.; serv. con. 580; ord. pres. 30 to 40 lb., fire pres. 100 to 140 lb.

McPHERSON, 3,546.

MUNICIPAL WATER AND ELECTRIC PLANT.

Mayor, F. O. Johnson.....McPherson

Comr., J. W. Jenkins..... "

" Fred Jackson..... "

City Clerk, Milton Hawkinson. "

Supt., Philip R. Dunton..... "

Engr. P'g. Sta., A. R. Harris... "

Wells, 3 8 and 12-in. 140 ft. deep; one mi. from center distribution; no purification.

Wells, 3 8 & 12-in. 140 ft. deep; one mi. from center distribution; no purification.

Pumps, 1-180,000 gal. Luitweiler, 1-360,000 gal. Keystone belted to elec. motor, 37.5 kw. 2300 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1887) steel.

Pipe, 10 mi. 4 to 12-in c. i.; hyd. 76, hose con. 2½-in. various; valves, 60 r. & l. h. thd.; meters, 760 National & Pittsburgh; av. daily cons. 240,000 gal.; serv. con. 778; ord. pres. 80 to 310 lb., fire pres. same.

MADISON, 721.

MUNICIPAL LIGHT & WATER PLANT.

Mayor, J. P. Braddock.....Madison

Supt. & Engr. P'g. Sta., Harry Coburn.....Madison

Shallow wells; oil engines, 65-hp. De La Vergne.

MANHATTAN, 5,722.

MUNICIPAL.

Supt., S. K. Johnson.....Manhattan

Cons. Engrs.,

Worley & Black.....Kansas City, Mo.

Engr. P'g. Sta.,

Henry Leber.....Manhattan

Chemist, Kansas Water Survey Laboratory .... Lawrence, Kans.

Wells, 2 24-in. 37 ft. deep; one mi. from center business section; settling basin, 1,430,000 gal.; slow sand filter, 1,430,099 gal.

Pumps, 1-1,440,000 gal. vert. triplex G. E. 1914, 1-1,440,000 gal. hor. triplex G. E. 1915, 1-864,000 gal. vert. Worth. 1911, 2-1,440,000 gal. Worth. 1915 d. con. to elec. motors, 2 75 & 100-hp. 110 v. 60 cys. G. E. 1911 & 1914; purchase energy from Manhattan Ice, Light & Power Co.

Pipe, 61 mi. 4 to 10-in. c. i.; hyd. 113, hose con. 2½-in.; meters, 1500; av. daily cons. 700,000 gal.; serv. con. 1639; ord. pres. 84 lb., fire pres. same.

Rates; meter, $1.50 quarter 1000 cu. ft.

MANKATO, 1,155.

MUNICIPAL.

Mayor, A. B. Peters.....Mankato

City Clerk, R. M. Cawthorn..... "

Engr. P'g. Sta., T. A. Hollingshead "

Wells, 2 open 20 ft. in diam. 40 ft. deep; ½ mi. from center business section; no purification.

Pumps, 1-100,000 gal. hor. duplex belted to gasoline engine, 20-hp.; pumping to standpipe (1899).

Pipe, 10 mi. 4 & 6-in. c. i.; hyd. 25, hose con. 4-in.; meters, 100; av. daily cons. 30,000 gal.; serv. con. 150.

Rates; meter, $2 quarter, 38c 1000 gal. max., 25c min.

MARION, 1,841.

MUNICIPAL.

Pur. Agt., J. P. Lilley.....Marion

Supt., S. E. Darron..... "

Engr. P'g. Sta., J. Frank Casper ... "

Shallow wells; oil engine, 210-hp. De La Vergne.

MARQUETTE, 715.

MUNICIPAL.

Supt., C. A. Vann.....Marquette

Wells, 4 6-in. 40 ft. deep; near center distribution; no purification.

Boilers, 2 hor. tubular 60-hp. Gem; hand stoking; pumps, 4 steam Buffalo; pumping direct.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 26, hose con. 2½-in. Bourbon; valves, 14 r. h. thd. Bourbon; meters, 80 Thomson & Pittsburgh; sev. con. 80; ord. pres. 50 to 65 lb., fire pres. 80 to 320 lb.

MARYSVILLE, 2,260.

MARYSVILLE LIGHT, POWER & WATER Co.

Pres., W. A. Dell. Colorado Springs, Colo.

Sec. & Treas., J. E. Lundstrom..... " " "

Supt., C. M. Belknap " " "

Engr. P'g. Sta.,

C. J. Ochsner.....Marysville

Blue River; boiler, 160-hp. Kewanee; steam engine, 235-hp. Ball.

Rates; meter, 30c. 1000 gal. max., 8c. min.

MEADE, 664.

MUNICIPAL.

Mayor, S. D. Adams.....Meade
Supt. & Engr. P'g. Sta., S. W. Ellis. "

Wells, 4 3 & 12-in. 200 to 280 ft. deep.

Pump, 3-504,000 gal. Platt d. con. to gasoline engines, 2 25-hp. ea.. Otto; pumping direct and to elevated tank (3910) 50,000 gal. steel.

Pipe, 3.5 mi. 4 to 12-in c. i.; hyd. 15, hose con. 2½-in. Ludlow; valves, 8 r. h. thd. Ludlow; meters, 150 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 150.

Rates; flat, 75c. mo; meter, 30c. 1000 gal. max., 20c. min.

MEDICINE LODGE, 1,229.

MUNICIPAL.

Supt., W. L. Bragg.....Medicine Lodge
Engr. P'g. Sta.,
James Anderson..... " "

Elm Creek; 3.5 mi. from center distribution; impounding reservoir; no purification.

Pump, 1-108,000 gal. centrifugal Trump driven by wtr. turbine; gravity distribution except for fires.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 48, hose con. 3-in.; meters. non; serv. con. 390; ord. pres. 40 to 60 lb., fire pres. 60 to 120 lb.

MILTONVALE, 829.

MUNICIPAL.

Supt., O. E. Kirby.....Miltonvale
Cons. Engr., E. T. Archer, Kansas City, Mo.
Engr. P'g. Sta., R. J. Haffa.. Miltonvale

Wells, 4 10-in. 65 & 99 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, 2-144,000 gal. ea. Luitweiler driven by oil engines, 2 50-hp. ea. F. M. & elec. motor, 7.5 kw. 220 v. 3 ph. 60 cys. G. E.; elec. energy from municipal lt. & pwr. plant; pumping to elevated tank (1913) 60,000 gal. iron.

Pipe, 4.5 mi. 4 to 12-in. iron; hyd. 21 hose con. 2½-in. Eureka; valves, 21 r. h. thd. Ludlow; meters, 60 Pittsburgh; av. daily cons. 25,000 gal.; serv. con. 60; ord. pres. 40 to 60 lb., fire pres. same.

MINNEAPOLIS, 1,895.

MUNICIPAL.

Comr., A. G. Johnson.....Minneapolis
" E. K. Raper..... "
" J. S. Richards..... "
Supt.& Des. Engr., R. E. Sutton "

Infiltration tunnel & well, 7 x 9 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 4 tubular 75-hp. Frost; hand stoking; pumps, 2-1,000,000 gal. Blake; pumping direct and to standpipe (1892) steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 63, hose con. 2½-in. Ludlow; valves, 45 l. h. thd. Ludlow; meters, 600 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 600; ord. pres. 50 to 75 lb., fire pres. 75 to 125 lb.

MOLINE, 808.

MUNICIPAL.

Supt., W. E. Wallace.....Moline

Wells, open 30 ft. in diam. 30 ft. deep; ¼ mi. from center business section.

Pumps, 1-230,400 gal. vert. triplex Platt 1914 belted to elec. motor, 10-hp. 440 v. 3 ph. 60 cys. F. M. 1914; steam engines, 60-hp. Snow 1913; elec. generator, 60 kva. Allis-C; pumping to elev. tank (1914) 56,-000 gal. steel, Memphis Tower & Tank Co.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 22, hose con. 2½-in. Ludlow; valves, 10 r. h. opening Ludlow; meters, 25 Worth.; av. daily cons. 404,000 gal.; serv. con. 26; ord. pres. 52 to 56 lb., fire pres. 50 to 56 lb.

Rates; meter, $1 quarter 4000 gal., 25c 1000 gal. max., 15c min.

MOUND CITY, 698.

MUNICIPAL.

Mayor, P. S. Thorne.....Mound City
Comr., H. W. Underhill..... " "
" J. D. Bacon..... " "
" B. C. Garrison..... " "
Supt. & Engr. P'g. Sta.,
J. W. Kenney..... " "

Wells near Sugar Creek, 4 4 & 18-in. 23 ft. deep; settling basin, 103,000 gal.; chemical, sulphate of alumina.

Boiler, one tubular 80-hp. Chandler & Taylor; mechanical stoking; pumps, 4-1,008,000 gal. steam Canton; pumping to reservoir, 150,000 gal.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 22 ,hose con. Eureka; valves, 26 r. h. thd. Darling; meters, 99 Pittsburgh; av. daily cons. 5000 gal.; serv. con. 115; ord. pres. 65 to 85 lb.; fire pres. same.

Rates; meter, min. charge 50c., 25c. 1000 gal.

MOUNDRIDGE, 626.

MUNICIPAL.

Comr., Dr. D. C. Baer.....Moundridge
" J. F. Regier..... "
" F. Wedel..... "
Supt. & Engr. P'g. Sta.,
A. F. Reiger..... "

Wells, 4 6-in. to 20 ft. in diam. 20 to 200 ft. deep.; ¾ mi. from center distribution; no purification.

Pumps, 4-384,000 gal. Platt & Douglass belted to gasolene engines, 3 5 to 50-hp. Dempster & Olds; pumping to elevated tank, 30,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 3-in.; valves, 16 r. & l .h. thd. various; meters, 100 National & Standard; av. daily cons. 40,000 gal.; serv. con. 100; ord. pres. 41 to 51 lb., fire pres. 41 to 75 lb.

Rates; meter, 30c. 1000 gal. max., 20 min.

MULBERRY, 997.
MUNICIPAL.
City Mgr. & Supt., J. N. Marion . Mulberry
Cons. Engr., W. E. Peack ..... Girard
Clerk, John Pedroja ..... Mulberry
Well, 10-in. 1000 ft. deep; near center distribution; settling basin.
Boilers, 2 steam 80-hp. Brownell; hand stoking; air compressors, 2.
Gravity distribution from reservoir, 50,000 gal.
Hyd. 28, hose con. 3-in.; meters, Pittsburgh; av. daily cons. 55,000 gal.; serv. con. 179; ord. pres. 50 to 65 lb., fire pres. 85 lb.
Rates; flat, 60c mo., meter, 30c 1000 gal.

MULVANE, 1,084.
MUNICIPAL.
Mayor, S. F. Field ..... Mulvane
Comr., George A. Blair ..... "
" J. H. Rucker ..... "
" J. L. Rosecrans ..... "
Engr. P'g. Sta., Theo. Eck ..... "
Wells, 24-in. 28 ft. deep; ½ mi. from center distribution.
Pumps, 1-504,000 gal. Deane driven by elec. motor, 2 ph. 60 cys. 2200 v. Westg.; gasoline engine, Stover; pumping to elev. tank, 50,000 gal. steel.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. Iowa; valves, 18 l. h. thd. Iowa; meters, 130 Pittsburgh; av. daily cons. 1,100,000 gal.; serv. con. 120; ord. pres. 43 lb., fire pres. 100 lb.
Rates; meter, 25c 1000 gal. max., 10c min.

NEODESHA, 2,872.
MUNICIPAL.
Supt., C. M. Kimball ..... Neodesha
City Clerk, J. J. Carroll ..... "
Fall River; ½ mi. from center distribution; settling & coagulating basin, 1-3,000,000 gal.; slow sand filter, 1,250,000 gal.; chemicals, hypochlorite of lime, iron sulphate and lime.
Boilers, 3 hor. tubular 100-hp.; gas fuel; pumps, 2-1,250,000 gal. ea. Platt, 1-1,250,000 gal. Snow; pumping direct.
Pipe, one mi. 4 to 12-in. c. i.; hyd. 50, hose con. 3-in. Rensselaer; av. daily cons. 850,000 gal.; serv. con. 850; ord. pres. 45 to 50 lb., fire pres. 50 to 110 lb.
Rates; flat, $11 year; meter, 20c. 1000 gal.

NEWTON, 7,862.
MUNICIPAL.
Mayor, A. J. Duff ..... Newton
Comr., G. C. Cook ..... "
" Dr. O. W. Roff ..... "
Engr. P'g. Sta., Roll Ginter ..... "
Wells, 14 24-in. 18 ft. deep; 7.5 mi. from center distribution.
Boilers, 2 fire-tube 150-hp. ea. Kewanee; hand stoking; pumps, 2-2,000,000 gal. L.-D.-G. & Platt d. con. to elec. motors, 90 kw. 220 v. d. c.; elec. energy from elec. generators, 2 steam engine driven; pumping to elevated tank (1909) 640,000 gal. iron.
Hyd. 177, hose con. 2½-in. Rensselaer; meters 2000 National; av. daily cons. 1,250,000 gal.; serv. con. 2200; ord. pres. 90 to 110 lb., fire pres. 30 to 50 lb.

NICKERSON, 1,185.
MUNICIPAL.
Supt., L. W. Rexroad ..... Nickerson
Cons. Engrs.,
Worley & Black ..... Kansas City, Mo.
Wells, 3 4-in. 56 ft. deep; near center business section; no purification.
Pumps, 1-100,800 gal. vert. triplex Deane 1914, 1-720,000 gal. hor. Jeanesville 1914 geared to elec. motors, 2 a. c. 5 & 50-hp. 220 & 2300 v. 3 ph. 60 cys. Western Electric 1914; purchase energy from The United Water, Light & Gas Co., Hutchinson, Kans.; pumping to elev. tank (1914) 50,000 gal. steel.
Pipe, 4.75 mi. 4 to 8-in. c. i.; hyd. 34, hose con. 2½-in. Ludlow; valves, 19 l. h. opening Ludlow; meters, 30 Pittsburgh; av. daily cons. 6000 gal. 75%; serv. con. 30; ord. pres. 52 to 55 lb., fire pres. 55 to 130 lb.
Rates; 75c mo. 5000 gal., 10c 10,000 gal. max., 5c min.

NORTON, 1,787.
MUNICIPAL.
Mayor, W. L. Johnson ..... Norton
Chmn. Comrs., C. E. Kennedy ..... "
Comr., W. H. Hollinshead ..... "
" A. J. Johnson ..... "
Supt., J. P. Ward ..... "
Wells, 1¾ mi. from center distribution; no purification.
Boilers, 2 hor. tubular 50-hp. Eng.; hand stoking; pumps, 5-2,300,000 gal. Deane & American; oil engine, 25-hp. F. M.; elec. motor, 15-hp. 220 v. 3 ph. 60 cys. Westg.; pumping to standpipe (1888) steel.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 43, hose con. 2½-in. Rensselaer & Ludlow; valves, 73 r. & l. h. thd. Rensselaer; meters, 360 National & Pittsburgh; av. daily cons. 140,000 gal.; serv. con. 360; ord. pres. 40 to 65 lb., fire pres. 65 to 110 lb.

OAKLEY, 681.
MUNICIPAL WATER & LIGHT PLANT.
Mayor, S. W. Irwin ..... Oakley
Supt., O. L. Day ..... "
Engr. P'g. Sta., Edmund Morgenstein "
Deep wells; oil engines, 80-hp. F. M.

OBERLIN, 1,157.
MUNICIPAL LIGHT & WATER PLANT.
Mayor, S. J. Morrish ..... Oberlin
City Clerk, G. Addleman ..... "
City Treas., R. D. Strain ..... "
Gen. Mgr., P. S. Maddox ..... "
Supt. & Cont. Agt., W. W. Beyer ... "
Engr. P'g. Sta., J. W. Burchett ..... "
Deep well; boiler, 110-hp. Murray; steam engines, 100-hp. Murray.

OLATHE, 3,272.
MUNICIPAL.
Mayor, J. S. Pellett ..... Olathe
Comr., L. R. Sykes ..... "

Cons. Engr., E. E. Harper, Kansas City, Mo
Engr. P'g. Sta., Roy Murray.....Olathe
Impounding reservoir on Cedar Creek, 33,000,000 gal.; settling & coagulating basin, 25 x 25 x 8 ft.; mechanical filters, 200,000 gal.; chemical, sulphate of alumina & hypochlorite of lime.

Boilers (reserve), 2; hand stoking; pumps, 3-200,000 gal. Deane driven by elec. motors, 2-110 & 2200 v. 60 cys.; elec. energy from Olathe Elec. Lt. & Pwr. Co., pumping to elevated tank, 100,000 gal. steel.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 80 Ludlow; meter, 600 Hersey; av. daily cons. 100,000 gal.; ord. pres. 70 to 120 lb., fire pres. same.

ONAGA, 759.
MUNICIPAL.
Mayor, F. A. Brown.....Onaga
Shallow wells.

OSAGE CITY, 2,432.
MUNICIPAL.
City Supervisor, G. W. Ellis....Osage City
Cons. Engrs., Burns & McDonnell..... " "
Supt., C. O. Greenstreet..... " "
Wells, 100 ft. in diam. 10 ft. deep; ½ mi. from center distribution; settling basins, 2-300,000 gal.; mech. filters, 2-504,000 gal.; chemicals, sulphate of alumina, iron & lime.

Pumps, 2-1,296,000 triplex Deane d. con. to elec. motors, 2 50-hp. 2300 v. 3 ph. 60 cys.; elec. energy from Municipal Light Plant; pumping to elev. tank (1909) 70,000 gal. steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 70, hose con. 3-in. Rensselaer; valves, 26 r. h. thd. Ludlow; meters, 307 Pittsburgh; av. daily cons. 60,000 gal.; serv. con. 300; ord. pres. 40 to 45 lb., fire pres. 40 to 150 lb.

Rates; meter, 30c 1000 gal. max., 8c min.

OSAWATOMIE, 4,046.
MUNICIPAL.
Comr., D. E. Beaty.....Olathe
Supt., B. L. Pries..... "
Impounding reservoirs, 2-1,500,000 gal.; mechanical filters, 500,000 gal.

Boilers, 2 75-hp. ea. Kewanee; oil fuel; pumps, 2-1,440,000 gal. ea. Worth., 2-1,008,000 gal. ea. Worth.; pumping direct.

Pipe, 8 mi. 4 to 12-in. c. i.; valves, 30 r. h. thd. Rensselaer & Ludlow; meters, 225 Pittsburgh, Neptune & Worth.; av. daily cons. 500,000 gal.; serv. con. 300; ord. pres. 50 to 60 lb., fire pres. 60 to 100 lb.

OSBORNE, 1,566.
MUNICIPAL.
Pres. Comrs., W. L. McMillen....Osborne
Comr., Dr. H. H. Nye..... "
Supt., J. H. Meyers..... "
Wells, one open 12 ft. in diam. 50 ft. deep; near center business section.

Boilers, one 30-hp. 90 lb. 1905; hand stoking; pumps, 1-120,000 gal. hor. simple d. act. Snow 1905 driven by elec. motor, 20-hp. 2200 v. 3 ph. 60 cys. G. E. 1913; pumping to elev. tank (1905) 80,000 gal.

Hyd. 30, hose con 2½-in.; valves, 14 r. & l. h. opening; meters, 250 Pittsburgh & Thompson; av. daily cons. 50,000 gal.; serv. con. 300; ord. pres. 50 to 60 lb.

Rates; meter, $2.25 quarter 10,000 gal., 15c 1000 gal. max., 75c. mo.

OSWEGO, 2,317.
MUNICIPAL.
Supt., J. F. Waskey.....Oswego
Engrs. P'g. Sta., (W. R. Pickering... "
(Jesse L. Seager.... "
Neosho River; ½ mi. from center distribustion; slow sand filter, 1,000,000 gal.; mech. filter, 1,000,000 gal.; chemicals, sulphate of alumina.

Boilers, 2 fire tube 60-hp. English; hand stoking; pumps, 2-2,000,000 gal. ea. Deane & Platt; pumping direct.

Pipe, 10.5 mi. 4 to 10-in. c. i.; hyd. 70, hose con. 2½-in. Nelson; valves, 22 r. h. thd. Crane; meters, 45 various; av. daily cons. 500,000 gal.; serv. con. 435; ord. pres. 100 lb., fire pres. 140 lb.

OTTAWA, 7,650.
MUNICIPAL.
Comr., C. S. Wilson.....Ottawa
Supt., W. O. Myers..... "
Engr. P'g. Sta., E. L. Mason..... "
Marais des Cygnes River; 1½ mi. from center distribution; settling & coagulating basin, 450,000 gal.; clear water reservoir, 5,000,000 gal.; chemicals, hypochlorite of lime, iron sulphate & lime.

Boilers, 4 hor. return tubular 110-hp. Brownell; hand stoking; pumps, 2-2,000,000 gal. comp. duplex McGowan; natural gas engine, 80-hp. Otto drives elec. generator; elec. motors, 2 40-hp. 1100 v. 2 ph. 60 cys. Westg.; pumping direct & to Standpipe (1890) steel.

Pipe, 18.25 mi. 4 to 12-in. c. i.; hyd. 141, hose con. 2½-in. Chapman & Ludlow; valves, 77 r. h. thd. mostly Ludlow; meters, 550 Neptune; av. daily cons. 800,000 gal.; serv. con. 1150; ord. pres. 50 to 75 lb., fire pres. 65 to 110 lb.

Rates; flat, $6 year, bath $3; meter, min. charge 50c. mo., 35c. 1000 gal. max., 5c. min.

PAOLA, 3,207.
MUUICIPAL.
Chm. Comrs., M. A. Schroeder.....Paola
Comr., C. F. Henson..... "
" G. M. Light..... "
Supr., W. W. Liggett..... "
Bull Creek; 1¼ mi. from center distribution; settling & congulating basin, 10,000,000 gal.; chemical, sulphate of alumina.

Boilers, 2 tubular 250-hp.; pumps, 2-1,000,000 gal. Worth.; pumping to standpipe (1886) iron.

Pipe, 7 mi. 4 to 12-in.; hyd. 70, hose con. 2-in. Ludlow; valves, 20 r. & l. h. thd. Ludlow; meters, 350 mostly Worth.; av. daily cons. 350,000 gal.; serv. con. 830; ord. pres. 35 & 60, fire pres. 90 to 120 lb.

Rates; flat, $1.00 mo. with bath & closet; meter, 35c. 1000 gal. max., 7½c. min.

PARSONS, 12,463.
THE PARSONS WATER SUPPLY & POWER Co.
Pres., E. H. Edwards.....Parsons
V. Pres., P. H. Kimball..... "
Sec. & Supt., W. K. Hayn..... "
Treas., G. E. Edwards..... "
Engr. P'g. Sta., C. E. Brevier..... "
Labeth & Neosho Rivers; settling basins, 2-18,000,000 gal.; doagulating basins, 5-400,000 gal.; mech. qlters, 3,000,000 gal.; chemical, sulphate of alumina & lime.
Boilers, 3 hor. tubular 85-hp. 110 lb.; pumps, 1-2,333,000 gal. hor. comp. c. & f. wh. L-D-G 1908, 1-2,500,000 gal. hor. comp. d. act. Deane, 2-1,750,000 gal. vert. triplex Deane, 1-750,000 gal. vert. belted to gas engines, 2 125-hp. Weber; pumping to standpipe (1892) 376,000 gal.
Pipe, 30 mi.; hyd. 151, hose con. 2½-in.; valves, 100; meters, 2000; av. daily cons. 2,-500,000 gal. 85%; serv. con. 1400; ord. pres. 50 to 120 lb., fiie pres. 80 to 150 lb.
Rates; flat, $8 year, vath $2, closet $3; meter, 25c mo., 30c 100 cu. ft. max., 10c min.

PEABODY, 1,416.
MUNICIPAL.
City Clerk, Roy B. Roberts.....Peabody
Shallow wells.

PHILLIPSBURG, 1,302.
MUNICIPAL; deep well.

PITTSBURG, 14,755.
MUNICIPAL.
Comr., J. A. Nichols.....Pittsburg
Supt., A. B. Cuthbertson..... "
Engr. P'g. Sta., W. J. Lapsworth. "
Wells, 5 6 to 15-in. 1350 to 1500 ft. deep; at center distribution; no purification.
Boilers, 3 hor. tubular 150-hp. Michelman; hand stoking; pumps, 3-5,250,000 gal. Deane & Worth.; pumping to elev. tank, 100,000 gal. steel.
Pipe, 44 mi. 4 to 12-in. c. i; hyd. 272, hose con. 2½-in. Nelson & R. D. W.; valves, 451 r. & l .h. thd. Ludlow & Eddy; meters, 1041 National; av. daily cons. 1,200,000 gal.; serv. con. 4165; ord. pres. 45 lb., fire pres. 45 to 110 lb.
Rates; flat, $6 year, bath $2, closet $2; meter, 40c. 1000 gal. max., 9c. min.

PLAINVILLE, 1,090.
MUNICIPAL.
Supt., F. J. Hoss.....Plainville
Depp well.

PLEASANTON, 1,373.
MUNICIPAL.
Mayor, J. R. McLeland.....Pleasanton
Supt., J. A. Gentle..... "
Engr. P'g. Sta., John Guinn.... "
Pleasanton Lake; 1.25 mi. from center business section; slow sand filters, 175,000 gal. Jackson; chemical, sulphate of alumina.
Boiler, one hor. 100-hp. 150 lb. F. M. 1904; hand stoking; pumps, 1-62,000 gal. hor. comp. F. M. 1904; pumping to elev. tank (1904) 150,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 54, hose con. 2½-in. Kupferle, Chapman & Rensselaer; valves, 7 r. h. opening; meters, 20 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 175; ord. pres. 50 to 60 lb., fire pres. same.
Rates; flat, $1.50 quarter, bath 50c, closet 75c; meter, $1.50 quarter 5000 gal., 30c 1000 gal. max., 25c min.

PRATT, 3,302.
MUNICIPAL.
Mayor, W. O. Humphrey.....Pratt
Comr., L. D. Hess..... "
" R. Calbeck..... "
Town Clerk, M. P. Jones..... "
Supt., F. G. Haskin..... "
Engr. P'g. Sta., E. Dupont..... "
Wells, 17 2 to 8-in. 50 to 65 ft. deep; near center business section.
Pumps, 2 duplex F. M. d. con. to oil engines; pumping to elev. tanks, 2 (1900, 1909) 150,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 8.5 mi. 3 to 6-in. c. i.; hyd. 102, hose con. 2½-in. Rensselaer; valves, 42 r. & l. h. openings; meters, 600 Buffalo; av. daily cons. 300,000 gal. 75%; serv. con. 600; ord. pres. 40 to 60 lb., fire pres. 40 to 80 lb.
Rates; meter, $2.50 quarter 20,000 gal., 12.5c 1000 gal.

ROSEDALE, 5,960.
Supply from Kansas City.

RUSSELL, 1,692.
MUNICIPAL.
Mgr., M. C. Fox.....Russell
Impounding reservoir, 100,000,000 gal.; mechanical filters, 500,000 gal.; chemical, sulphate of alumina.
Pumps, 1-208,000 gal, 1-410,000 gal., 1-650,000 gal., 2-432,000 gal. ea. Worth. & Platt driven by elec. motors, 4-2300 v. & 1-110 v. 3 ph. 60 cys. Ft. Wayne; pumping to elev. tank, 55,000 gal. steel.
Pipe, 12 mi. 4 to 12-in. c. i. & wood; hyd. 45, hose con. 2½-in. Darling; meters, 180 Neptune & Pittsburgh; av. daily cons. 55,000; serv. con. 180; ord. pres. 58, fire pres. 150 lb.
Rates; meter, 25c. 1000 gal. max., 20c. min.

SABETHA, 1,728.
MUNICIPAL.
Supt., C. A. Darby.....Sabetha
Wells, 5 6-in. 130 ft. deep; ½ mi. from center distribution; no purification.
Pumps, 1-144,000 gal., 1-432,000 gal. centrifugal, 5 deep-well American driven by elec. motors, 5 5-hp.ea., one 15-hp., 2 30-hp. ea. 230 v. 3 ph. 60 cys. Wagner; pumping to elev. tank (1909) 75,000 gal. iron.
Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in. Pratt & Cady; valves, l. h. thd.; av. daily cons. 90,000 gal.; serv.

con. 285; ord. pres. 52 to 60 lb., fire pres. same.

Rates; meter, 30c. 1000 gal. max., 15c. min.

ST. FRANCIS, 492.

MUNICIPAL.

City Clerk, W. H. Justice.....St. Francis
Supt., T. M. Rolfs..... " "
Engr. P'g. Sta., Edward Perkins.. " "

Well, 18-in. 30 ft. deep; ¾ mi. from center distribution; no purification.

Pump, 1-396,000 gal. triplex Deane belted to gasoline engine, 25-hp. Miami; elec. motor, 20-hp. 2200 v. 3 ph. 60 cys. Westg.

Pipe, 2½ mi. 4 to 12-in. c. i.; hyd. 22, hose con. 3-in. Kupferle; valves, 15 r. h. thd. Crane; meters, 85 Buffalo; av. daily cons. 28,000; serv. con. 103; ord. pres. 40 to 80 lb., fire pres. same.

Rates; flat, 50c. mo.; meter, min. charge $1.50 quarter, 15c. 1000 gal.

ST. JOHN, 1,785.

MUNICIPAL.

City Clerk, A. O. Seevers.....St. John

Shallow wells.

ST. MARYS, 1,397.

MUNICIPAL.

Mayor, W. E. Miller.....St. Marys
Supt., A. Wisson..... " "

Wells, 4 4-in. 60 ft. deep.

Boilers, 2 tubular 100-hp. Kewanee; hand stoking; pump, 2-864,000 gal. Wilcox; pumping to standpipe (1909) iron.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 3-in. Rensselaer; valves, 2 Crane; meters, 140 mostly Thomson; av. daily cons. 70,000 gal.; serv. con. 150; ord. pres. 85, fire pres. same.

Rates; 40 c. 1000 gal. max., 20c. min.

SALINA, 9,688.

MUNICIPAL.

Supt., John Bell.....Salina

Shallow wells.

SCAMMON, 2,233.

MUNICIPAL.

City Clerk, J. P. Rasper.....Scammon

Deep wells.

SCANDIA, 570.

MUNICIPAL.

Mayor, D. A. Nywall.....Scandia
City Clerk, J. W. Plotner..... "
Engr. P'g. Sta., L. N. Hendrix..... "

Wells, 2-10 & 16 ft. in diam. 25 ft. deep; no purification.

Pump, 1-288,000 gal. Deane driven by gasolene engine, 25-hp. Alamo; pumping to standpipe (1911) steel.

Meters, none; av. daily cons. 40,000 gal.; serv. con. 36; ord. pres. 50 to 125 lb., fire pres. same.

Rates; flat, 60 c. mo.

SCOTT CITY, 918.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, Chas. A. Kelson.....Scott City
Supt. & Engr. P'g. Sta., H. J. Willis..... " "
City Clerk, H. J. Masch..... " "

Deep wells; oil engine, 100-hp. Alamo.

SEDAN, 1,211.

MUNICIPAL.

Supt., M. L. Hay.....Sedan

Cana River.

SENECA, 1,806.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, W. A. Rucker.....Seneca
Sec., C. H. Herald..... "
City Treas., C. P. Stine..... "
Mgr. & Supt., H. W. Graham..... "
Ch. Engr. P'g. Sta., W. D. Murphy. "

Shallow wells; boiler 320-hp. Murray; steam engine, 250-hp. Sioux City.

SHARON SPRINGS, 440.

MUNICIPAL.

City Clerk, W. L. Scott....Sharon Springs

Deep wells.

SMITH CENTER, 1,292.

MUNICIPAL; wells & infiltration galleries.

STERLING, 2,133.

MUNICIPAL.

Comr., Geo. Fox.....Sterling
City Clerk, Anna Cairns..... "
Engr. P'g. Sta., M. A. Olmstead... "

Wells, 8 7-in. 30 ft. deep; 2½ mi. from center distribution; no purification.

Boilers, 2 tubular 125-hp. ea. Kewanee; hand stoking; pumps, 3-2,500,000 gal. Deane; pumping direct.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Galvin; valves, 26 r. h. thd. Galvin; meters, 536 Pittsburgh; av. daily cons. 125,000 gal.; serv. con. 536; ord. pres. 20 to 40 lb., fire pres. 40 to 110 lb.

Rates; meter, 20c. 1000 gal.

STOCKTON, 1,317.

MUNICIPAL.

Mayor, J. T. Smith.....Stockton
Chmn. Comrs., Basil Roloson..... "
City Clerk, F. A. Chipman..... "
Supt., O. M. Goodrich..... "
Engr. P'g. Sta., Wm. Drumm..... "

Well, 16 ft. in diam. 32 ft. deep; ¼ mi. from center distribution; no purification.

Boiler, one hor. tubular 40-hp. Nagle; hand stoking; pumps, 1-432,000 gal. triplex Platt, 1-360,000 gal. comp. Deane; oil engines, 2 160-hp. St. Marys & De La Vergne; elec. motors, 30-hp. 2300 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1887) steel.

Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 2½-in. R. D. W.; valves, 18 r. k. thd.; meters, 300 Buffalo; av. daily cons. 80,000 gal.; serv. con. 350; ord. pres. 60 to 75 lb., fire pres. 60 to 85 lb.

Rates; meter, mi. charge $5 year, 15c. 1000 gal.

STRAFFORD, 1,927.
MUNICIPAL.
Cons. Engrs.,
Worley & Black.....Kansas City, Mo.
City Cler, ...Strafford
Shallow wells.

SYRACUSE, 1,126.
MUNICIPAL.
Mayor, E. M. Scott.....Syracuse
Comr., W. C. Daugherty..... "
" R. E. Bray..... "
" T. M. Grissom..... "
Supt. & Cons. Engr., J. C. Riley.. "
Engr. P'g. Sta., C. F. Sinscott.... "
Well, 8-in. 485 ft. deep & impounding reservoir, 175,000 gal.; ½ mi. from center business section.
Pumps, 1-504,000 gal. Platt, 1-201,600 gal. Keystone Driller; elec. motors, 30-hp. 2200 v. 3 ph. 60 cys. Westg.; oil engine, 80-hp. F. M.; pumping to elev. tank, 75,000 gal. iron.
Pipe, 4 mi. 4 to 128-in. c. i.; hyd. 27, hose con. 3½-in. Iowa; valves, 30 r. h. thd. Crane; meters, 134 Pittsburgh; av. daily cons. 30,000 gal.; serv. con. 134; ord. pres. 50 to 54 lb., fire pres. 125 lb.
Rates; meter, $1.50 mo., 15c 1000 gal.

SYLVAN GROVE, 464.
MUNICIPAL.
Supt., A. W. Sing.....Sylvan Grove
Wells, 2 12-in. 58 feet deep; ¾ mi. from center distribution; no purification.
Pump, 1-432,000 gal. Platt d. con. to gasolene engines, 2 32 & 50-hp. F. M.; pumping to elev. tank, 50,000 gal.
Pipe, 6.25 mi. 4 to 12-in. c. i.; hyd. 13, hose con. 3-in. Iowa; valves, 16 r. h. thd. Iowa; meters 138 Neptune; av. daily cons. 42,000 gal.; serv. con. 138; ord. pres. 71 to 76 lb., fire pres. same.
Rates; meter, min. charge $1 mo., 25c. 1000 gal.

TOPEKA, 43,684.
MUNICIPAL.
Comr., F. M. Newland.....Topeka
Supt., Jesse Shaw..... "
City Engr., A. R. Young..... "
Asst. Supt., F. L. Stevens..... "
Wells, 36 6 & 8-in. 28 to 30 ft. deep, one 48 ft. in diam. 2-60 ft. in diam. 35 ft. deep; no purification.
Boilers, 2 500-hp. Fitzgibbons, 2 400-hp. Brunswick; hand stoking; pumps, 2-5,000,000 gal ea. Hally, 1-8,000,000 Allis C. pumping direct.
Pipe, 70 mi. 4 to 30-in. c i.; hyd. 606, hose con. 2½-in. Holly, Eddy R. D. W. & Iowa; valves, 593 r. h. thd. Ludlow & Eddy; meters, 7162 various; av. daily cons. 3,000,000 gal.; serv. con. 7428; ord. pres. 80 to 90 lb., fire pres. 140 to 150 lb.
Rates; meter, min. charge 40c. mo., 35c. 1000 gal. max., 9c. min.

TURON, 572.
MUNICIPAL.
Mayor, George E. Farney.....Turon
Shallow wells.

UDALL, 330.
MUNICIPAL.
Supt., Ed. Hammon.....Udall
Well, 8 ft. in diam. 90 ft. deep; near center distribution.
Pump driven by gasoline engine, 10-hp.
Av. daily cons. 22,500 gal.; serv. con. 12; ord. pres. 70 to 100 lb., fire pres. 100 to 120 lb.

VALLEY FALLS, 1,129.
MUNICIPAL.
Mayor, F. A. Hatfield.....Valley Falls
Treas., J. T. B. Gephart..... " "
Clerk, G. W. Harman..... " "
Supt., F. E. De Lonne..... " "
Springs; 3½ mi. from center distribution; reservoirs, 150 ft. in. diam. 35 ft. deep; no purification.
Pump driven by gasolene engine, 15-hp. Alamo; pumping to standpipe (1887) steel.
Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 3-in. various; valves, 12 r. & l. h. thd. various; meters, 150 mostly National; av. daily cons. 30,000 gal.; serv. con. 250; ord. pres. 45 to 65 lb.
Rates; flat, $7 year; meter, 20c. max., 12½c. min.

WAKEENEY, 883.
MUNICIPAL.
Mayor, W. G. Baker.....Wakeeney
Town Clerk, Herman Long..... "
Supt., H. C. Johnson..... "
Engr. P'gx Sta., George Kulp... "
Wells, 4 6-in. 34 ft. deep; 2½ mi. from center business section.
Pumps, 1-180,000 gal. hor. single F. M. 1910 geared to oil engine, 25-hp. F. M. 1910, 1-180,000 gal. hor. duplex F. M. 1913 belted to elec. motor, 25-hp. 2200 v. 3 ph. 60 cys. G. E. 1913; pumping to elev. tank (1910) 75,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 5 mi. 4 to 6-in. c. i.; hyd. 44, hose con. 2¼-in. Ludlow; valves, 26 r. h. thd. Crane; meters, 157 Pittsburgh; av. daily cons. 75,000 gal. 92%; serv. con. 158; ord. pres. 45 to 57 lb.
Rates; meter, 50c mo. 2000 gal., 15c 1000 gal. max., 10c min.

WAKEFIELD, 514.
MUNICIPAL.
Mayor & Gen. Mgr., W. H. Myers. Wakefield
Sec., Wm. Sterling..... "
Treas., S. E. Richards..... "
Engr. P'g. Sta., Wm. Culberson.. "
Wells, 2 10 ft. in diam. 54 ft. deep; near center business section.
Pumps, 1-30,000 gal. hor. tri. exp. Deming 1910 driven by gasoline engine, 25-hp. Alamo 1910; pumping to elev. tank (1910) 30,000 gal. steel.
Pipe, 3 mi. 6-in. c. i.; hyd. 30, hose con

2-in.; valves, 25; meters, 150 National, Gamon & Pittsburgh; av. daily cons. 20,000 gal.; serv. con. 200; ord. pres. 85 lb., fire pres. 60 to 85 lb.

Rates; meter, 75c mo. 2000 gal.

WAMEGO, 1,714.

MUNICIPAL.

Mayor, Abe Siltner, Jr.....Wamego
Clerk, K. D. Doyle..... "
Treas., C. N. Baker..... "
Supt., D. A. Course..... "
Engr. P'g. Sta., Roy Bennett..... "

Wells; 4 6-in. 60 ft. in diam.

Boilers, 2 hor. tubular 300-hp. Murray; hand stoking; pumps, 2-300,000 gal. Worth.; pumping to standpipe (1899) steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 42, hose con. 2½-in.; valves, r. h. thd. Rensselaer; meters, 403 various; av. daily cons. 90,000 gal.; serv. con. 403; ord. pres. 60 to 75 lb., fire pres. same.

Rates; meter, 30c. 1000 gal. max., 6c. min.

WASHINGTON, 1,547.

MUNICIPAL.

Chmn. Comrs., H. Kirchhoff...Washington
Comr., G. A. Wright..... "
" A. W. Matthews..... "
Supt. & Engr. P'g. Sta.,
V. V. Long..... "

Mill Creek; coagulating basins, 2-100,000 gal.; mech. filters, 500,000 gal., .005 acres N. Y. C. Jewell; chemical, sulphate of alumina.

Pumps, 2-500,000 gal. hor. American 1914, 2-500,000 gal. vert. American 1914 d. con. to elec. motors, 2 40-hp. ea. 2300 v. 3 ph. 60 cys. Westg. 1914, 2 7½-hp. 200 v. 3 ph. 60 cys. Westg. 1914; purchase energy from Washington Power Co.; pumping direct & to standpipe (1900) 100,000 gal.

Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 28, hose con. 2½-in. Rensselaer; valves, 30 r. h. opening Rensselaer; meters, 190 Neptune; av. daily cons. 100,000 gal. 75%; serv. con. 250; ord. pres. 40 to 60 lb., fire pres. 80 to 130 lb.

Rates; meter, 75c mo. 2000 gal., 37.5c 1000 gal. max., 15c min.

WATERVILLE, 704.

MUNICIPAL.

Mayor, G. J. Thacher.....Waterville
Comr., Geo. Hall..... "
Town Clerk, R. Smith..... "
Supt., S. Jones..... "

Well, 12 ft. in diam. 54 ft. deep; ¼ mi. from center business section.

Pumps, 1-504,000 gal. vert. triplex Platt 1912 d. con. to oil engine, 80-hp. F. M. 1912; elec. generator, 50 kva. Westg.; pumping to elev. tank (1912) 75,000 gal. steel, Des Moines Bridge & Iron Works.

Pipe, 2.75 mi. 4 to 8-in. c. i.; hyd. 20, hose con. 3-in.; valves, 16 l. h. opening; meters, 40 Neptune; av. daily cons. 3000 gal.; serv. con. 39; ord. pres. 64 lb., fire pres. same.

Rates; meter, 50c mo. 1600 gal.

WAVERLY, 751.

MUNICIPAL.

Mayor, J. L. Senior.....Waverly
Chm. Comrs., F. F. Fockele..... "
Supt., F. W. Hubbard..... "
Engr. P'g. Sta., Chas. Farren..... "

Wells, 6-in. 20 to 25 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 hor. 180-hp. Erie; hand stoking; pump, 1-200,000 gal. comp. duplex F. M.; pumping to standpipe (1907) steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 13, hose con. 2½-in. Rensselaer; valves, 11 r. h. thd.; meters, 75 Pittsburgh; av. daily cons. 10,000 gal.; serv. con. 75; ord. pres. 43 to 50 lb., fire pres. 125 to 175 lb.

Rates; meter, 50c. 1000 gal.

WEIR CITY, 2,289.

MUNICIPAL; deep wells.

WELLINGTON, 7,034.

MUNICIPAL.

Cons. Engrs.,
Benham Engr. Co., Oklahoma City, Okla.
Surface water.

Boilers, 3 water-tube 200-hp. ea. Murray 1915; pumps, 1-2,160,000 gal. turbine Worth. 1915, 2-1,440,000 gal. duplex Worth.

WELLSVILLE, 648.

C. A. SMITH, Owner.

Mgr., C. A. Smith.....Wellsville

Well, 10 ft. in diam. 42 ft. in diam.; 1¼ mi. from center distribution; no purification.

Pump, 1-144,000 gal. American driven by elec. motor, 7.5 kw. 220 v. 3 ph. 60 cys. Am. valve; pumping direct.

Pipe, 1.25 mi. 4 to 12-in. c. i.

WICHITA, 52,450.

THE WICHITA WATER COMPANY. (Controlled by American Water Works and Electric Company, 50 Broad St., New York, N.Y.)

Pres., G. E. Hoffmaster....New York, N. Y.
V. Pres., J. C. Adams..... " " " "
Sec., F. R. Berry..... " " " "
Treas., T. B. Davis..... " " " "
Supt., J. N. Wells..... " " " "

Wells, 43 8-in. 35 ft. deep.

Boilers, 6 return tubular 80-hp. Erie & Hazleton; hand stoking; pumps, 1-5,000,000 gal. hor. c. & f. wh. Holly, 1-3,000,000 gal. hor. c. & f. wh. Holly, 1-3,000,000 gal. hor. L-D-G, 1-5,000,000 gal. hor. Prescott, 1-3,500,000 gal. R. D. W. high pressure, 1-375,000 gal. hor. Epping-Carpenter, 1-1,500,000 gal. hor. Knowles; pumping direct & to reservoir, 1,000,000 gal.

Pipe, 89.3 mi. 4 to 30-in. c. i.; hyd. 675 various; meters, 3611 various; serv. con. 7000; ord. pres. 50 to 75 lb., fire pres. 90 to 120 lb.

WILSON, 981.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Supt., J. H. Williams.....Wilson

Village Clerk, W. B. Powers..... "
Engr. P'g. Sta., J. H. Bradley..... "

Wells, 2 open 20 ft. in diam. 20 & 30 ft. deep; 1.25 mi. from center business section.

Pumps, 2-360,000 gal. vert. triplex G. E. 1910 geared to elec. motor, 25-hp. 2300 v. 3 ph. 60 cys. G. E. 1910 & d. con. to gasoline engine, 25-hp. St. Marys; oil engines, 50 & 100-hp. St. Marys; pumping to elev. tank (1910) 75,000 gal. steel.

Pipe, 6 mi. 4 to 8-in. c. i.; valves, 21 l. h. opening Crane; meters, 198 Pittsburgh; av. daily cons. 38,000 gal.; serv. con 308; ord. pres. 65 lb., fire pres. same.

Rates; meter, min. charge 75c mo. 3000 gal.

WINFIELD, 6,700.

MUNICIPAL.

Chmn. Comrs., Arthur Johnson...Winfield
Clerk, W. C. Hall..... "
Supt. & Engr. P'g Sta., W. J. Welfert..... "

Walnut River; one mi. from center business section; coagulating basins, 2-3,000,000 gal.; mech. filters, 3 Warren; chemicals, soda ash, iron & lime.

Boilers, 4 hor. tubular 150-hp. 150 lb. Kewanee 1905; hand stoking; pumps, 1-2,000,000 gal. hor. comp. c. & f. wh. 1905, 1-3,000,000 gal. hor. c. & f. wh. 1912, 1-1,500,000 gal. hor. 1910, d. con. to elec, motor, 25-hp. 220 v. 3 ph. 60 cys. 1910. 1-2,000,000 gal. hor. driven by steam turbine, 40-hp. Westg. 1910; pumping to reservoir, 2,500,00 gal.

Pipe, 30 mi. 4 to 12-in. c. i.; hyd. 175, hose con. 2½-in. Bourbon, Rensselaer & Williams; valves, 105 r. & l. h. opening; meters, 290 Neptune; av. daily cons. 1,300,000 gal.; serv. con. 1600; ord. pres. 60 to 125 lb., fire pres. same.

Rates; flat, $6 year, bath $1.50, closet $1; meter, $1.80 quarter 10,000 gal., 25c 1000 gal. max., 10c min.

YATES CENTER, 2,024.

THE PEOPLES WATER CO.

Supt. & Cons. Engr.,
Fred Southard.....Yates Center
Engr. P'g. Sta., Glenn Graham " "

Impounding reservoir, 850,000,000 gal.; 1.75 mi. from center business section; settling basin, 15,000,000 gal.

Boilers, 2 tubular 80-hp. 120 lb. Brownell 1906; hand stoking; pumps, 2-500,000 gal. hor. comp. d. act. Deane 1906; pumping direct & to elev. tank (1906) 80,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 9 mi. 4 to 8-in. c. i.; hyd. 41, hose con. 2½-in. Pratt & Cady; valves, 60 l. h. opening; av. daily cons. 275,000 gal. 94%; serv. con. 185; ord. pres. 54 to 150 lb., fire pres. same.

Rates; meter, 65c 1000 gal., max., 30c min.

KENTUCKY

ADAIRVILLE, 683.
MUNICIPAL.
Chmn. Comrs., Dr. J. L. Russell. Adairville
Town Treas., Edwin R. Moore... "
" Clerk, W. T. Conn..... "
Springs & impounding reservoir, 30,000 gal.; ⅛ mi. from center business section.
Pumps, 1-129,600 gal. hor. duplex belted to gasoline engine. 6-hp. I. H. C. 1908; pumping to elev. tank (1897) 36,000 gal. steel, Caldwell.
Pipe, 3 mi. 1½ to 4-in. w. i.; hyd. 24, hose con. 2½-in.; valves, 30 l. h. opening various; meters, 150 Buffalo; av. daily cons. 35,000 gal.; ord. pres. 30 lb., fire pres. 90 lb.
Rates; meter, 30c 1000 gal. max., 20c min.

ASHLAND, 8,688.
ASHLAND WATERWORKS CO.
Pres. & Mgr., W. A. Patton.....Ashland
Secy. & Treas.,
W. W. Seymour.....Tacoma, Wash.
Big Sandy River; 6 mi. from center distribution; settling basins, 12,000,000 gal.; mechanical filters, 3,000,000 gal.; chemicals, hypochlorite of lime, iron sulphate & lime.
Pumping by the Catlettsburg, Kenova & Ceredo Water Co. See Catlettsburg.
Pipe, 22 mi. 4 to 12-in. c. i.; hyd. 140, hose con. 2½-in. Eddy & Bourbon; av. daily cons. 2,000,000 gal.; serv. con. 2200; ord. pres. 80 to 85 lb., fire pres. same.

BARBOURVILLE, 1,633.
BARBOURVILLE WATERWORKS CO. (Privately owned.)
Pres., Gen. Mgr. & Supt.,
C. P. Kennedy.....Barbourville
V. Pres., F. D. Sampson..... "
Sec.-Treas., R. H. Newitt..... "
Cumberland River & wells, 2 8-in. 175 to 190 ft. deep; ½ mi. from center business section; chemical, hypochlorite of lime.
Boilers, 30-hp. 100 lb. H. S. G. 1908; hand stoking; pumps, one hor. simple d. act. Deane 1908, 1-432,000 gal. vert. triplex Goulds 1913 belted to gas engines, 2 20 & 32-hp. F. M. 1908 & 1915; pumping direct & to reservoir, 550,000 gal.
Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 40, hose con. 3-in. Bourbon; valves, 30 r. h. opening Bourbon; meters, 15 various; serv. con. 150; ord. pres. 135 to 140 lb., fire pres. same.
Rates; flat, 75c mo., bath 67.5c, closet 67.5c; meter, $2 mo., 40c 1000 gal.

BEREA, 1,510.
Owned by Berea College.
Pres., Wm. G. Frost.....Berea
Sec., M. E. Vaughn..... "
Treas., Thos. J. Osborne..... "
Pur. Agt., H. E. Taylor..... "
Supt. & Engr. P'g. Sta.,
Geo. G. Dick....."
Cons. Engr., R. D. Kimball,
15 W. 38th St.....New York, N. Y.
Chemist, C. F. Rumbold.....Berea
Springs; 6 mi. from center business section.
Gravity distribution from reservoirs, 10-210,000 gal.; pipe, 4 mi. 4 & 6-in. c. i.; hyd. 23, hose con. 2½-in. Chapman; valves, 6 l. h. opening Chapman; meters, 55 Buffalo; ord. pres. 83 lb., fire pres. 15 to 80 lb.
Rates; flat, $8 year; meter, $3 quarter, 18c 100 cu. ft.

BOWLING GREEN, 9,173.
MUNICIPAL.
Supt., J. Arch Wilkins .....Bowling Green

BRADENBURG, 482.
MUNICIPAL. For fire service only.
Mayor, H. D. Woodson.....Bradenburg
Fire Chief, C. H. Coleman..... "
Comr., E. Applegate..... "
Sec., E. M. Duncan..... "
Des. Engr., Chas. A. Casperke. "
Denton Lake, near Ohio River; no purification.

BURNSIDE, 1,117.
THE BURNSIDE WATER CO.
Pres. & Supt., J. W. Sloan.....Burnside
Secy., S. C. Sloan..... "
Engr. P'g. Sta., W. P. Gover..... "
Cumberland River; near center distribution; no purification.
Boilers, 2 150-hp. Gem; hand stoking; pumps, 1-172,800 gal., 2-423,000 gal., Deane, McGowan & Pulling; pumping to reservoir, 200,000 gal.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. Bourbon; valves, 18 r. h. thd. Bourbon; meters, 28, National; av. daily cons. 60,000 gal.; serv. con. 145; ord. pres. 55 to 125 lb., fire pres. 55 to 135 lb.
Rates; flat, $8 year; meter, 35c. 1000 gal. max., 12.5c. min.

CADIZ, 1,005.
CADIZ WATER CO.
Pres., Treas. & Gen. Mgr.,
Geo. L. Smith.....Cadiz
Sec., J. W. McKinney..... "
Little River; ½ mi. from center business section.
Pumps, 2-240,000 gal. vert. triplex Deane 1914; water-turbines, three 80-hp.; pumping direct & to standpipe (1906) 120,000 gal.
Pipe, 3.5 mi. 2 to 6-in. c. i.; hyd. 26, hose con. 2-in.; valves, 8 l. h. opening Crane; av. daily cons. 80,000 gal.; serv. con. 120; ord. pres. 25 to 65 lb., fire pres. 180 lb.
Rates; flat, $10 year.

CALHOUN, 742.
GREEN RIVER LIGHT & WATER CO.
Pres., L. W. Johnson.....Calhoun
Sec. & Treas., G. L. Hardesty..... "
Supt., C. G. Gilmer..... "
Green River; ¼ mi. from center distribution; no purification.

Boilers, 2 tubular 50 & 80-hp. Memphis; hand stoking; pumps, 2 Platt; pumping to elev. tank, 32,000 gal.

Pipe, 1.25 mi. 4 to 12-in.; hyd. 12, hose con. 2-in. Owensboro; valves, 16 r. h. thd. Crane; av. daily cons. 50,000 gal.; serv. con. 175; ord. pres. 50 to 85 lb., fire pres. 70 to 90 lb.

CARLISLE, 1,293.
MUNICIPAL.
Clerk, W. H. Frey.....Carlisle

CARROLLTON, 1,906.
MUNICIPAL.
Mayor, James Gayle.....Carrollton

CATLETTSBURG, 3,520.
CATLETTSBURG, KENOVA & CEREDO WATER CO.
Pres., W. A. Patton.....Catlettsburg
V. Pres., Secy. & Treas., W. W. Patton..... "
Asst. Treas., W. S. Patton.... "
Engr. P'g. Sta., Robt. Grant.. "

Big Sandy River; 1 mi. from center distribution; coagulating basin, 300,000 gal.; mechanical filters, 4,000,000 gal.; chemicals, hypochlorite of lime, oxide of lime & iron sulphate.

Boilers, 3 water-tube 300-hp. Sterling & Heine; natural gas used; pumps, 2-4,000,000 gal. Worth., & Epping Carpenter; gasoline engine, 2 50-hp.; pumping to reservoir, 12,000,000 gal.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd., hose con. 2½ in. Eddy, Bourbon & Howe; valves, l. h. thd. Eddy & Bourbon; av. daily cons. 1,000,000 gal.; ord. pres. 110 lb., fire pres. same.

Rates; flat, $8 year; meters, 40c. 1000 gal. max., 20c. min.

CENTRAL CITY, 2,545.
CENTRAL CITY WATER CO.
Supt., F. Moore.....Central City

CLINTON, 1,497.
CLINTON WATER & LIGHT CO.
Pres., R. L. Johnson.....Clinton
Supt., W. F. Granar..... "

Boiler, 60-hp. Atlas; steam engine, 90-hp. Chuse.

COVINGTON, 53,270.
MUNICIPAL.
Comr. & Pur. Agt., J. Mason Howk.....Covington
Sec., G. F. Greeking..... "

Ohio River; no purification.

Gravity distribution from reservoirs, 111,000 gal.

Pipe, 500 mi. c. i.; hyd. 625 Bourbon; valves, Bourbon; meters, 10,500 National, Hersey & Neptune; av. daily cons. 3,500,000 gal.; serv. con. 10,500 ;ord. pres. 105 lb.

Rates; meters, 14c. 100 cu. ft. max., 7.5c. min.

CYNTHIANA, 3,603.
MUNICIPAL.
Supt., P. C. Ammerman.....Cynthiana

DANVILLE, 5,420.
MUNICIPAL.
Supt., Henry E. Woolfolk.....Danville
Cons. Engr., Chester B. Davis.... "
Engr. P'g. Sta., A. Rehm..... "

Dix River; 4 mi. from center distribution; impounding reservoirs, 2-100,000,000 gal.; coagulating basins, 20 x 40 ft.; mechanical filters, 3-500,000 gal. ea.; chemical, sulphate of alumina.

Boilers, 2 water-tube 100-hp. ea. Vogt; hand stoking; pumps, 3-2,000,000 gal. Nordberg; pumping direct & to standpipe (1894) steel.

Pipe, 12.98 mi. 4 to 12-in. c. i.; hyd. 120 hose con. 2½-in. Ludlow; valves, 53 r. h. thd. Rensselaer; meters, 825 mostly Pittsburgh & National; av. daily cons. 904,000 gal.; serv. con. 875; ord. pres. 40 to 80 lb.

DAYTON, 6,979.
UNION LIGHT, HEAT & POWER CO.
Pres., James C. Ernst.....Covington
V. Pres., W. Y. Carwright...Cincinnati, O.
Sec. & Treas., Albert Silva.....Newport
Gen. Mgr., T. R. McKay.....Covington
Ch. Elec. Engr., T. W. De Forest..Newport
Supt., W. H. Harton.....Dayton

Buy water from Newport, gravity distribution.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Bourbon; valves, 220 l. h. opening Bourbon; meters, 400 mostly National & Neptune; av. daily cons. 164,000 gal.; serv. con. 1,000; ord. pres. 60 to 80 lb.

Rates; flat, min. $6 year; meter, 15c. 1000 gal.

EDDYVILLE, 1,442.
MUNICIPAL.
Mayor, Dr. J. H. Hussey.....Earlville

EARLINGTON, 3,931.
ST. BERNARD MINING CO.
Pres., G. C. Atkinson.....Earlington
V. Pres. & Gen. Mgr., F. D. Rash "
Sec. & Treas., D. M. Evans..... "
Supt. & Pur. Agt., W. E. Rash.. "

Impounding reservoir 225,000,000 gal.; ¾ mi. from center distribution; no purification.

Boilers, 2 hor. tubular 40 & 60 hp.; hand stoking; pumps, 2-1,440,000 gal. F. M.; pumping to standpipe (1911) steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 2½-in. Kupferle; meters, none; av. daily cons. 100,000 gal.; serv. con. 550; ord. pres. 50 to 90 lb., fire pres. same.

FRANKFORT, 10,465.
FRANKFORT WATER CO.
Pres., D. W. Lindsey.....Frankfort
V. Pres., D. H. Long..... "

Sec., Supt. & Pur. Agt.,
J. D. Griffin.....Frankfort
Treas., W. J. McGonigale..... "

FRANKLIN, 3,063.
MUNICIPAL.
Comr., W. H. Winfield.....Franklin
Supt., Linn Neill..... "
River; 2 mi. from center distribution.
Boilers, 2 tubular 60-hp.; pumps, 2 steam; pumping to elev. tank (1898) steel.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 3-in. Rensselaer; valves, 30 r. h. thd.; meters, 4; ord. pres. 45 to 100 lb.

FULTON, 2,575.
MUNICIPAL.
Chmn. Comrs., C. R. Young.....Fulton
Comr., J. H. Fley..... "
" Guy Howard..... "
Supt., J. R. Miller..... "
Engr. P'g. Sta., E. E. Holson..... "
Impounding reservoir, 30,000 gal. & wells, two 8 & 10-in. 300 to 497 ft. deep; near center business section; no purification.
Boilers, 2 hor. tubular 100-hp. 110 lb. Vogt 1908, 1-750,000 gal. Deane, 1-1,000,000 gal. Deane, one comp. steam L-D-G 1914, one simple steam L-D-G 1907; pumping to standpipe (1903) 35,000 gal.
Pipe, 5 mi. 6 to 10-in c. i.; hyd. 56, hose con. 2½-in. Morgan; valves, 11 l. h. opening Crane; meters, 34 Worth.; av. daily cons. 600,000 gal. 15%; serv. con. 973; ord. pres. 60 tp 100 lb.
Rates; flat, $22 year; meter, $2.25 mo., 30c 1000 gal. max., 12½c min.

GEORGETOWN, 4,533.
GEORGETOWN WATER, GAS & ELECTRIC POWER CO.
Pres., R. W. Nelson.....Newport
V. Pres., S. L. Allen.....Georgetown
Sec., D. J. Hauss.....Aurora, Ind.
Gen. Mgr. & Supt., S. L. Allen. Georgetown
Engr. P'g. Sta., Walter Medley. "
Springs; ¼ mi. from center business section; settling basins, 2-195,000 gal., coagulating basins, 8-4000 gal.; chemicals, sulphate of alumina, soda & iron, & hypochlorite of lime.
Boiler, return tubular 150-hp. 110 lb. McIlvain & Spiegel 1901; hand stoking; pumps, 2-750,000 gal. ea. hor. single d. act. L-D-G 1890, 1-500,000 gal. vert. triplex Deane 1901, 1-1,400,000 gal. hor. Worth. 1912, 1-500,000 gal. hor. De Laval 1912, 1-500,000 gal. hor. De Laval 1912 d. con. to elec. motors, 3 a. c. 10, 50 & 100-hp. 2300 v. 3 ph. 60 cys. G. E. 1912; steam turbine, 10-hp. De Laval 1912; purchase energy from Lexington Utilities Co.; pumping direct.
Pipe, 8.5 mi. 4 to 8-in. c. i.; hyd. 89, hose con. 2½-in. Chapman & Bourbon; valves, 49 l. h. opening Chapman & Bourbon; meters, 14 Gamon & National; av. daily cons. 500,000 gal.; serv. con. 700; ord. pres. 40 to 70 lb., fire pres. 110 lb.
Rates; flat, $1 mo., bath 50c, closet 50c; meter, 12½c 100 cu ft. max., 10c min.

GREENVILLE, 1,604.
GREENVILLE LIGHT & WATER CO.
Pres., L. W. Irwin.....Greenville
V. Pres., W. J. Murphy..... "
Sec., Treas. & Mgr., J. A. Gilman "
Engr. P'g. Sta., J. A. Rose..... "
Boiler, 300-hp. C. J.; steam engine, 197-hp. Ridgway.

HARRODSBURG, 3,147.
MUNICIPAL.
Comr., J. R. Edger.....Harrodsburg
" H. T. Adams..... "
Supt. & Mgr., W. F. Farney.... "
City Clerk, Spencer Smith.... "
Salt River; boiler, water-tube 100-hp. 90 lb. Casey-Hedges 1892; pumps, 2-1,000,000 gal. ea. hor. comp. Deane 1892; pumping to standpipe (1892) 300,000 gal.
Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 92, hose con. 2½-in. Bourbon; valves, 32 r. h. opening Bourbon; meters, 15 Neptune & Hersey; av. daily cons. 300,000 gal.; serv. con. 295; ord. pres. 65 to 80 lb., fire pres. same.
Rates; flat, $15 year, bath $2.50, closet $2.50; meter, $1.25 mo., 20c 1000 gal.

HENDERSON, 11,452.
MUNICIPAL.
Supt., Wm. Sieber.....Henderson

HICKMAN, 2,736.
PUBLIC SERVICE CO. OF WESTERN KENTUCKY.
Pres., J. H. Boughton,
Pierce Bldg., St., Louis, Mo.
V. Pres., W. C. Morehead...St. Louis, Mo.
Sec. & Treas., H. L. Lowe... " " "
Cons. Engrs., National Light & Pwr. Co..... " " "
Welis, 4 8-in. 600 & 150 ft. deep; near center distribution; no purification.
Boilers, 2 return tubular 125-hp. Rohan; hand stoking; pumps, 5-720,000 gal. steam & 580,000 gal. driven by elec. motors, 50-hp. 3 ph. 60 cys. C. E. & Wagner; elec. energy from plant in connection; pumping direct & to standpipe (1900) steel.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 37 Empire; meters, 130 Worth.; av. daily cons. 250,000 gal.; serv. con. 425; ord. pres. 80 to 90 lb., fire pres. 95 to 110 lb.

HOPKINSVILLE, 9,419.
HOPKINSVILLE, WATER CO.
Pres., W. T. Tandy.....Hopkinsville
Sec., Max B. Nahm..... "
Mgr. & Pur. Agt., T. W. Morris "
Impounding reservoir. 2-150,000 gal.; mechanical filters, 500,000 gal. N. Y. C. chemical, sulphate of alumina.
Boilers, 2 water-tube 105-hp. Vogt; pumps, 2-1,000,000 gal. hor. duplex L-D-G., 1-2,000,000 gal. c. & f. wh. Allis-C.; pumping direct & to standpipe, 150,000 gal.
Pipe, 13.1 mi. 4 to 12-in. c. i.; hyd. 139, hose con. 2 ½-in Bourbon; meters, 847

National, Neptune & Pittsburgh; av. daily cons. 417,000 gal.; serv. con. 1860; ord. pres. 70 to 100 lb.

Rates; flat, $6 year, bath $6, closet $5; meter, 30c. 1000 gal. max., 10c. min.

LAWRENCEBURG, 1,723.

MUNICIPAL.

Supt., V. L. Spencer.....Lawrenceburg
Town Clerk, C. A. Leathers.. "

Salt River; 3 mi. from center distribution; no purification.

Boilers, 2 tubular 80-hp. ea. Vogt & Walton; hand stoking; pumps, 2-432,000 gal. National Foundry; pumping direct & to elev. tank, 60,000 gal. steel.

Pipe, 5 mi. 2 to 12-in. iron; hyd. 35, hose con. 2 ½-in.; valves, 8; meters, 325 various; av. daily cons. 100,000 gal.; serv. con. 225; ord. pres. 30 to 60 lb., fire pres. 60 to 100 lb.

Rates; meter, 30c. 1000 gal. max., 10c. min.

LEBANON, 3,077.

MUNICIPAL.

Supt., J. M. Rams.....Lebanon

LEXINGTON, 35,099.

LEXINGTON HYDRAULIC & MFG. CO.

Pres., John G. Stoll.....Lexington
V. Pres., E. B. Ellis..... "
Sec., R. R. Harting..... "
Supt. & Ch. Engr., W. S. Cramer "
Cons. Engrs., Alvord & Burdick Chicago, Ill.
Chemist, James M. Caird.....Troy, N. Y.

Impounding reservoir, 1,340,000,000 gal.; 3 mi. from center distribution; coagulating basins, 2-3,000,000 gal.; mechanical filters, 5,000,000 gal. N. Y. C. Jewell; chemical, copper sulphate, sulphate of alumina & hypochlorite of lime.

Boilers, 4 tubular 460-hp.; hand stoking; pumps, 1-3,500,000 gal. comp. duplex. 1-3,500,000 gal. centrifugal, 1-2,500,000 gal. triplex, 1-1,250,000 gal. comp. duplex, 1-6,000,000 gal. Holly, 1-3,000,000 gal. Holly, 2-1,500,000 gal. Holly; elec. motors, 200 kw. 2300 v. 3 ph. 60 cys. Westg.; pumping direct.

Pipe, 76 mi. 4 to 12-in. c. i.; hyd. 628, hose con. 2½-in. Holly & R. D. W.; wells, 770 r. h. opening; meters, 6200 National; av. daily cons. 2,500,000 gal.; serv. con. 6500; ord. pres. 50 lb., fire pres. 90 to 120 lb.

Rates; meter, 25c. 1000 gal. max., 7c. min.

LOUISA, 1,356.

LOUISA WATER & IMPROVEMENT COMPANY.

Pres. & Gen. Mgr., I. W. Atkinson..Louisa
V. Pres., F. I. Atkinson....Ft. Pierce, Fla.
Sec. & Treas., Wm. H. Suliven.....Louisa

Big Sandy River; ½ mi. from center business section; slow sand filter, 500,000 gal.; mech. filter, 500,000 gal. American.

Pumps, 1-500,000 gal. hor. duplex F. M. driven by gas engines, 2 50-hp. F. M. 1907.

Pipe, 5 mi. 5 to 8-in. c. i.; hyd. 40, hose con. 2½-in.; meters, 25 National & Pittsburgh; av. daily cons. 350,000 gal.; serv. con. 327; ord. pres. 100 to 150 lb., fire pres. same.

Rates; flat, 75c mo., bath 50c, closet 45c; meter, 60c mo., 30c 1000 gal. max., 10c min. 18,000,000 gal. Leavitt, 1-24,000,000 gal. Allis-C., 1-30,000,000 gal. centrifugal Worth., 3-24000,000 gal. Holly; pumping direct.

LOUISVILLE, 223,928.

LOUISVILLE WATER CO. (Owned by the City of Louisville). Supplies Lakeland, Anchorage, Highland Park & Glen View.

Pres., W. O. Head.....Louisville
Sec., J. B. Kumer..... "
Comr., C. F. Grainger..... "
" C. C. Norton..... "
" Ed. Humphrey..... "
Supt., Jas. B. Wilson..... "
Audr., J. S. Morris..... "
Pur. Agt., Chas. S. Potter..... "

Ohio River; 4 mi. from center distribution; settling basins, 500,000,000 gal.; mechanical filters, 6-8,000,000 gal.; chemical, hypochlorite of lime.

Boilers, 14 2900-hp. B. & W.; hand & mechanical stoking, B. & W.; pumps, 1-15,000,000 gal. Leavitt, 1-24,000,000 gal. Allis-C., 1-30,000,000 gal. centrifugal Worth., 3-24,000,000 gal. Holly; pumping direct.

Pipe, 375 mi. c. i.; av. daily cons. 30,000,000 gal.; serv. con. 43,000; ord. pres. 70 lb., fire pres. 80 lb.

MADISONVILLE, 4,966.

MUNICIPAL.

Chmn. Comrs., J. F. Dempsey. Madisonville
Sec., W. J. Dulin..... "
Comr., G. A. Finley..... "
Supt., Rankin Eastin..... "

Impounding reservoirs, 2-110,000,000 gal.; one & two mi. from center business section.

Pumps, 1-504,000 gal. vert. triplex Goulds 1914, geared to elec. motor, 35-hp. 2300 v. 3 ph. 60 cys. a. c. G. E. 1914, 2-900,000 gal. hor. Alberta 1914, d. con. to elec. motor, 75-hp. 2300 v. a. c. 3 ph. 60 cys. G. E. 1914; purchase energy from local light plant; pumping to standpipe (1914) 100,000 gal.

Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 86, hose con. 2½-in. Columbian; valves, 98 r. h. opening Columbian; meters, 6 Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 450; ord. pres. 60 to 120 lb., fire pres.same.

Rates; flat, 40c mo., closet 40c mo.; meter, 75c mo., 30c 1000 gal. max., 15c min.

MAYSVILLE, 6,141.

MAYSVILLE WATER CO.

Pres., C. D. Pearce.....Maysville
Sec. & Treas., G. Sulzer..... "
Supt. & Engr. P'g. Sta., August Schaeffer..... "

Ohio River; ½ mi. from center distribution; settling & coagulating basin, 2-1,250,000 gal ea.; aeration; chemicals, iron sulphate & lime.

Boilers, 2 100-hp. ea. Heine, 2 fire-tube 200-hp. McIlvain & Sprague; hand stoking;

pumps, 1-2,000,000 Blake, 1-1,500,000 gal., Blake, 1-500,000 gal. McGowan, 1-1,000,000 gal. Gordon; pumping to reservoirs, above.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2-in. R. D. W.; valves, 90 r. h. thd. R. D. W.; meters, 113 National, Thompson & Neptune; av. daily cons. 3,500,000 gal.; serv. con. 1200; ord. pres. 120 to 150 lb., fire pres. same.

Rates; meter, 40c. 1000 gal. max., 8.5c. min.

MIDDLEBOROUGH, 7,305.

MIDDLESBOROUGH WATERWORKS.

Pres., E. Johnson.....Middlesborough
Sec., Treas. & Mgr.,
Max T. Price..... "
Supt. & Gen. Mgr.,
H. McGiboney..... "

Impounding reservoir, 600,000,000 gal. fed by mountain streams & springs; 1.5 mi. from center business section; no purification.

Boilers, 6 return tubular 75 & 125-hp. 90 lb. Erie 1901 & Casey-Hedges 1905; hand stoking; pumps, 2-2,000,000 gal. vert. simple c. & f. wh. Allis 1901; steam engines, 2 120-hp. Allis 1901; pumping to elev. tank (1901) 1,250,000 gal. iron.

Pipe, 11.75 mi. 4 to 24-in. c. & w. i.; hyd. 59, hose con. 3-in. Ludlow; valves, 90 l. h. opening Ludlow; meters, 420 Hersey, National & Thomson; av. daily cons. 500,000 gal. 80%; serv. con. 1053; ord. pres. 110 lb., fire pres. same.

Rates; flat, $1.50 mo. including bath & closet; meter, $1 mo. 4000 gal., 25c 1000 gal. max., 4c min.

MORGANFIELD, 2,725.

MUNICIPAL.

Supt., D. M. Rhea.....Morganfield

Supply taken from mine, 225 ft. deep; ¾ mi. from center distribution.

Boilers, 2 return tubular 65-hp. Petz; hand stoking; pumps, 2-500,000 gal. ea. Deane; pumping to standpipe (1892) brick & steel.

Hyd. 60, hose con. 2½-in. L-D-G; meters, 100 various; av. daily cons. 110,000 gal.; serv. con. 258; ord. pres. 55 to 75 lb., fire pres. 55 to 120 lb.

Rates; meter, 35c 1000 gal. max., 10c min.

MT. STERLING, 3,932.

KENTUCKY UTILITIES Co. Office, City National Bank Bldg., Lexington, Ky. (Controlled by MIDDLE WEST UTILITIES Co., 112 W. Adams St., Chicago, Ill.)

Pres., Harry Reid.....Lexington
Audr., A. A. Tuttle..... "
Supt., W. P. Hackett.....Mt. Sterling

Slate Creek; 6 mi. from center distribution; impounding reservoir, 6,000,000,000 gal., settling basin, 1,000,000 gal.; mechanical filters, 1,000,000 gal.

Boilers, 2 fire-tube Monroe; hand stoking; pumps, 2-500,000 gal. Jeanesville; pumping to standpipe (1901) iron.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 104, hose con. 2½-in. Bourbon; valves, 72 U. S. P. & F.; meters, 569 National, Thompson & Neptune; av. daily cons. 200,000 gal.; serv. con. 687; ord. pres. 65 to 90 lb.; fire pres. same.

Rates; meter, 40c. 1000 gal.

MURRAY, 2,089.

MUNICIPAL.

Mayor, H. E. Holton.....Murray

NEWPORT, 3,309.

MUNICIPAL.

Comr., Herman Reisenberg.....Newport
Cons. Eng., W. L. Glazier..... "
Supt., James Maher..... "

Ohio River; 4 mi. from center distribution; settling basin, 20,000,000 gal.; chemicals, liquid chlorine, hypochlorite of lime & iron sulphate.

Boilers, 2 hor. tubular Sterling; hand stoking; pumps, 1-5,000,000 gal. Platt, 2-2,000,000 gal. Holly; pumping to reservoir above, 1-300,000,000 gal.; elev. tank (1909) steel.

Pipes, 47 mi. 4 to 12-in. c. i.; hyd. 150, hose con. 2½-in. Bourbon; valves, 400 Bourbon; meters, 3200 National & Neptune; av. daily cons. 30,000,000 gal.; serv. con. 7000; ord. pres. 60 to 80 lb.

NICHOLASVILLE, 2,935.

NICHOLASVILLE WATERWORKS Co. Office, Lexington.

Pres., W. L. Threlkeld.....Lexington
V. Pres., J. A. Geary..... "
Sec. & Treas., J. T. Roche..... "
Gen. Mgr., Supt. & Cons. Engr.,
E. A. Geary..... "
Engr. P'g. Sta., Robert Earnst .. "

Wells, 5 6-in. 140 to 290 ft. deep; 3 mi. from center business section; settling basin.

Boilers, 2 hor. tubular 40-hp. 100 lb. Casey-Hedges 1892 & 1904; pumps, 1-500,000 gal. hor. comp. d. act. McGowan 1909, 1-400,000 gal. hor. comp. d. act. Deane 1897, one steam L-D-G 1904; steam turbines, 2; pumping to standpipe (1889) 155,000 gal.

Pipe, 8 mi. 4 to 10-in.; hyd. 65, hose con. 2½-in. Bourbon; valves, 20 l. h. opening Crane; meters, 90 National & Pittsburgh; av. daily cons. 90,000 gal. 66⅔%; serv. con. 200; ord. pres. 40 to 59 lb., fire pres. 40 to 100 lb.

Rates; flat, $10 6 mo.; meter, $1 mo. 400 cu. ft., 30c 1000 gal.

OWENSBORO, 16,011.

MUNICIPAL.

Supt., Asa Williams.....Owensboro

Wells, 23 6 & 8-in. 100 & 200 ft. deep; 3 mi. from center distribution; water softening plant, 3,000,000 gal.; chemicals, lime & soda ash.

Boilers, 3 water-tube 200-hp. Atlas; hand stoking; pumps, 2-3,000,000 gal. Platt, 1-4,320,000 gal. Westg., 1-2,000,000

gal. Union; well pump driven by elec. motor, 50-hp. Westg.; air compressors, 2-2300 cu. ft. Ingersoll-Rand; pumping direct.

Pipe, 20 mi. 4 to 20-in. c. i.; hyd. 300, hose con. 2½-in Bourbon; valves, Bourbon; meters, 1500 Neptune; av. daily cons. 1,600,000 gal.; serv. con. 3500; ord. pres. 60 lb., fire pres. 120 lb.

PADUCAH, 22,760.

PADUCAH WATER CO.

Pres., Henry Burnett.....Paducah
V. Pres., T. J. Floumoy..... "
Sec., T. M. Ricke..... "
Gen. Mgr., Treas. & Supt.,
Muscor Burnett..... "
Engr. P'g. Sta., Oscar L. Holmes... "

Ohio River; ¼ mi. from center business section; settling basins, 2-2,500,000 gal., mech filters, 8,000,000 gal. N. Y. C. Jewell; chemical, sulphate of iron & lime.

Boilers, 2 Scotch marine 150-hp. ea. 140 lb. Freeman 1905, one 300-hp. 160 lb. B. & W. 1911; pumps, 1-5,000,000 gal. vert. comp. c. & f. wh. Holly 1899, 1-3,000,000 gal. vert. comp. c. & f. wh. Holly 1886, 2-4,000,000 gal. hor. duplex L-D-G 1899, 1-8,000,000 gal., 2-5,000,000 gal., hor. De Laval 1905; pumping to standpipe (1886) 500,000 gal.

Pipe, 51 mi. 6 to 16-in. c. i.; hyd. 494, hose con. 2½-in. Norwood; valves, 290 l. h. opening Ludlow; meters, 215 National; av. daily cons. 3,500,000 gal., serv. con. 5100; ord. pres. 40 lb., fire pres. 90 to 125 lb.

Rates; flat, $5.76, bath $3.50, closet $3.30; meter, 20c 1000 gal. max., 5c min.

PARIS, 5,855.

PARIS WATER CO.

Supt. & Des. Engr., Newton Mitchell. Paris
Treas., L. H. Fuller.....Putnam, Conn.
Engr. P'g. Sta., M. Jefferson.....Paris

River; ¾ mi. from center distribution; settling basins, 55,000 gal.; slow sand filters, 1,000,000 gal.; chemicals, sulphate of alumina.

Boilers, 2 hor. 110-hp. Hodge; hand stoking; pumps, 2-1,500,000 gal. L-D-G.; pumping to standpipe (1891).

Pipe, 12 mi. 4 to 12-in c. i.; hyd. 113, hose con. 2½-in. Coffin; valves, 90 r. h. thd. Coffin; meters, 40 National & Neptune; av. daily cons. 500,000 gal.; serv. con. 1100. ord. pres. 50 lb., fire pres. 100 lb.

Rates; flat, $6 year, bath $4, closet $4; meter, 25c. 1000 gal. max., 18c. min.

PEMBROKE, 731.

SOUTHERN KENTUCKY POWER CO.

Pres., H. S. Badger.....Nashville
V. Pres., T. L. Kittrill..... "
Sec. & Treas., A. J. Dyer..... "
Supt. & Engr. P'g. Sta., S. G. Ragsdale, Pembroke

Well, 2 4-in. 96 ft. deep.

Pumps, 2-720,000 gal. Worth., driven by elec. motor, 10 kw. 3 ph. 60 cys. G. E.; pumping to elev. tank, 20,000 gal. steel.

Meters, none; serv. con. 82; ord. pres. 62 lb., fire pres. same.

PINEVILLE, 2,161.

PINEVILLE WATER SUPPLY CO.

Pres., W. J. Cunningham.....Pineville
V. Pres., D. B. Logan..... "
Sec., Treas. & Gen. Mgr.,
B. F. Logan..... "

Impounding reservoir, 180,000 gal., springs & well, 8-in. 100 ft. deep; 73 mi. from center business section; no purification.

Boiler, hor. tubular 125-hp. 100 lb. 1908; hand stoking; pumps, 1-400,000 gal. hor. simple d. act. Worth. 1900, 2-300,000 gal. hor. simple d. act. Cameron 1912; pumping direct.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 25, hose con. 2½-in. R. D. W.; valves, 35 l. h. opening Jenkins; meters, 12 Pittsburgh; av. daily cons. 200,000 gal. 5%; serv. con. 300; ord. pres. 40 to 70 lb., fire pres. 80 to 130 lb.

Rates; flat, $2 mo., including bath & closet; meter, $1 mo. 1000 gal.; 40c 1000 gal. max., 10c min.

PRINCETON, 3,015.

MUNICIPAL.

Supt., D. B. Leech.....Princeton
Engr. P'g. Sta., James Eison..... "

Wells, 10 7-in. 85 ft. deep; ½ mi. from center business section; no purification.

Boilers, 1 80-hp. ea. 100 lb. Vogt 1906; hand stoking; air compress., 1-40,000 gal. Ingersoll-Rand 1906; elec. motor, 15-hp.; pumping direct.

Pipe, 12 mi. 4 to 8-in. c. i.; hyd. 84, hose con. 2½-in.; valves, 50 r. h. opening; meters, 330 National; av. daily cons. 40,000 gal.; ord. pres. 50 lb., fire pres. 75 lb.

Rates; meter, 50c mo. 1000 gal.

RICHMOND, 5,340.

RICHMOND WATER & LIGHT CO.

Pres., J. A. Sullivan.....Richmond
Sec., R. E. Curley..... "
Treas., A. W. Merrill.....Portland, Me.
Supt. & Pur. Agt., B. R. Dougherty..... " "

Impounding reservoir, 1-1,000,000 gal.; 3 mi. from center distribution.

Boilers, 2-150-hp. Vogt; pumps, 2-1,000,000 gal. Worth.; pumping to standpipe (1809) iron & elev. tank, 150,000 gal.

Hyd. 108, hose con. 2½-in. Bourbon; valves, 25 r. & l. h. thd. various; meters, 75 National, Neptune & Worth.; av. daily cons. 500,000 gal.; serv. con. 725; ord. pres. 60 lb., fire pres. 125 lb..

SHELBYVILLE, 3,412.

KENTUCKY UTILITIES CO. Office, City National Bank Bldg., Lexington, Ky. For officers see Mt. Sterling. (Controlled by MIDDLE WEST UTILITIES CO., 112 W. Adams St., Chicago., Ill.

Supt., Ernest Van Arsdel.....Shelbyvil]
Engr. P'g. Sta., T. H. Farmer "

Clear Creek; 1 mi. from center distribution; impounding reservoir, 12,000,000 gal.

Boilers, 3 fire-tube 150-hp. Vogt; hand stoking; pumps, 2-1,400,000 gal. McGowan; elec. motors, 15 kw. 2200 v. 3 ph. 60 cys; G.E.; elec. energy from local central station; pumping to standpipe (1896) steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. Ludlow; valves, 19 r. h. thd. Henderson; meters, 247 Hersey & National; av. daily cons. 260,000 gal.; serv. con. 400; ord. pres. 42 to 85 lb., fire pres. 62 to 105 lb.

Rates; meter, 30c. 1000 gal.

SOMERSET, 8,191.

KENTUCKY UTILITIES Co. Office, City National Bk. Bldg., Lexington, Ky. For officers see Mt. Sterling. (Controlled by MIDDLE WEST UTILITIES Co., 112 W. Adams St., Chicago, Ill.)

Supt., T. J. Spragle.....Somerset
Engr. P'g. Sta., A. Davis..... "

Pitman Creek; 2 mi. from center distribution; settling & coagulating basin, 10 x 40 ft.; mechanical filters, 3-1,000,000 gal.; chemical, sulphate of alumina.

Boilers, 2 return tubular 50-hp. ea.; hand stoking; pumps, 1-80,000 gal. steam L-D-G., 1-1,000,000 gal. driven by elec. motor 185-hp. 2300 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 1,000,000 gal.

Pipe, 11.6 mi. 4 to 12-in. c. i.; hyd. 53, hose con. 2½-in; valves, 17 r. h. thd. Crane; meters, 125 various; av. daily cons. 350,000 gal.; serv. con. 900; ord. pres. 75 to 100 lb., fire pres. same.

SPRINGFIELD, 1,329.

SPRINGFIELD WATER & ELECTRIC LIGHT Co.

Pres., I. H. Thurman.....Springfield
V. Pres., John R. Barber..... "
Sec., Mgr. & Supt., H. B. McElrow..... "
Treas., J. A. Boulevard..... "
Engr. P'g. Sta., W. B. Holderman..... "

Impounding reservoir; settling basin, 40,000,000 gal., slow sand filter, 40,000,000 gal.; chemical, sulphate of alumina.

Boiler, 3 water-tube 400-hp. Vogt.; hand stoking; pumps, 1-1,000,000 gal. Worth., 1-750,000 gal. N. F. & M.; pumping direct.

Pipe, 4 mi. 4 to 8-in.; hyd. 26, hose con. 2-in.; av. daily cons. 75,000 gal.; serv. con. 300; ord. pres. 90 to 100 lb., fire pres. 100 to 120 lb.

STANFORD, 1,532.

STANFORD WATER, LIGHT & ICE Co.

Pres., G. D. Florence.....Stanford
Sec. & Treas., G. L. Penny..... "
Mgr., B. F. Ront..... "

Boiler, 400-hp. Vogt; steam engine, 225-hp. Allis-C.

WICKLIFFE, 989.

MUNICIPAL WATER & LIGHT PLANT.

Supt., E. W. McElya.....Wickliffe
Engr. P'g. Sta., P. Waters..... "

LOUISIANA

ABBEVILLE, 2,907.
MUNICIPAL WATER & LIGHT PLANT.
Supt., H. P. Porter.....Abbeville
Steam engine, Harrisburgh.

ALEXANDRIA, 11,213.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Mayor, T. C. Wheadon.....Alexandria
Sec. & Comr., E. F. Hunter.... "
Treas., H. B. Chase..... "
Supt., J. C. Rassdale..... "
Engr. P'g. Sta., G. A. Rassdale.. "
Wells, 5 6 to 12-in. 1100 ft. deep; near center distribution; reservoir, 350,000 gal.; no purification.
Boilers, 4 water-tube 220-hp. ea. Erie; hand stoking; pumps, 2-2,880,000 gal. d. con. to steam turbine, one driven by elec. motor, 25-hp. 2200 v. 3 ph. 60 cys.; pumping direct & to standpipe (1894) steel.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 130, hose con. 2½-in. R. D. W.; valves, mostly Fairbanks; meters, 1400 various; av. daily cons. 700,000 gal.; serv. con. 1400; ord. pres. 35 to 40 lb., fire pres. 100 to 150 lb.
Rates; all meter, 20c 1000 gal. max., 15c min.

BATON ROUGE, 14,897.
BATON ROUGE WATER WORKS CO.
Pres., W. P. Connell.....Baton Rouge
V. Pres., W. W. Jackson..Williamsport, Pa.
Sec., Treas. & Gen. Mgr.,
J. H. Wood.....Baton Rouge

CROWLEY, 5,099.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Mayor, W. M. Eagan.....Crowley
Treas., J. Frankel..... "
Supt., W. C. Rose..... "
Engr. P'g. Sta., Geo. E. Gill..... "
Boiler, 250-hp. Casey; steam engine, 275-hp. Skinner.

DE RIDDER, 2,100.
DE RIDDER WATER WORKS CO.
Mgr., J. W. Tooke.....De Ridder
Wells, 300 to 400 ft. deep; ½ mi. from center distribution.
Pumping by Hudson River Lumber Co.; av. daily cons. 1,500,000 gal.; serv. con. 350; ord. pres. 60 lb., fire pres. 175 lb.

DONALDSONVILLE, 4,090.
MUNICIPAL.
Chmn. Comrs., Alex. Bloomsteil.....Donaldsonville
V. Chmn., V. Maurin..... "
2nd V. Chmn., P. Alex Poche "
Sec., J. E. Blum..... "
Supt., E. A. Thibodeaux.... "
Audr., J. W. Poche..... "
Ch. Engr. P'g. Sta., U. J. Esneault..... "
Mississippi River; near center distribution; no purification.
Pumps, 1-350,000 gal., 4-720,000 gal. ea. Lawrence; oil engines, 2 170-hp. Deisel; elec. motors, 60-hp. 2200 v. 3 ph. 60 cys. Ft. Wayne; elec. generators, 2-150 kw.; pumping direct.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 52, hose con. 2½ & 4-in. Pratt & Cady; valves, 23 l. h. thd. F. M.; meters, 306 Hersey; serv. con. 306; ord. pres. 25 to 50 lb., fire pres. 85 to 110 lb.
Rates; meter, min. charge $1.50 mo., 10c. 1000 gal.

FRANKLIN, 3,857.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Supt., C. Lauve.....Franklin
Engr. P'g Sta., L. H. Alpha..... "
Boiler, 400-hp. Heine; steam engines, 290-hp.

HAMMOND, 2,942.
MUNICIPAL.
Supt., I. Wott.....Hammond

HOMER, 1,855.
MUNICIPAL WATER & LIGHT PLANT.
Mgr., W. A. McKenzie.....Homer
Supt., T. A. Hamil..... "
Boiler, 100-hp. W. & W.; steam engine, 100-hp. Skinner.

HOUMA, 5,024.
MUNICIPAL.
Mayor, Calvin Wurzlow.....Houma
Supt., L. A. Tucker..... "
Bayou Terrebonne; ¼ mi. from center distribution; no purification.
Boilers, 2 hor. tubular 125-hp. Erie; hand stoking; pumps, 1-1,000,000 gal. Worth., 1-720,000 gal. F. M.; pumping to elev. tank, 40,000 gal.
Pipe, 6 mi. 4 to 12-in.; hyd. 54, hose con. 2A-in Rensselaer; meters, 30 Buffalo; av. daily cons. 40,000 gal.; serv. con. 125; ord. pres. 35 to 60 lb., fire pres. 100 lb.
Rates; flat, $3 year; meters, 8c. 1000 gal.

INDEPENDENCE, 1,004.
MUNICIPAL.
Mayor, William F. Wilson...Independence

JEANERETTE, 2,206.
MUNICIPAL.
Supt., A. S. Wattizing.....Jeanerette

JENNINGS, 3,925.
MUNICIPAL.
Supt., H. L. Nordyke.....Jennings

KENTWOOD, 3,609.
MUNICIPAL.
Supt. & Engr. P'g. Sta., O. C. Tynes, Kentwood
Well, 10-in. 727 ft. deep; near center distribution; reservoir, 131,000 gal.; no purification.
Pumps, 1-720,000 gal. F. M., 1-1,000,000

gal. F. M. d. con. to gasoline & oil engines, 60 & 80-hp. F. M.; pumping to elev. tank, 75,000 gal.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 41, hose con. 3-in. Columbian; valves, 18 r. h. thd. Columbian; av. daily cons. 125,000 gal.; serv. con. 250; ord. pres. 15 to 78 lb., fire pres. 65 to 125 lb.

LAFAYETTE, 6,392.

MUNICIPAL WATERWORKS & ELECTRIC LIGHT PLANT.

Pres., A. A. McBride.....Lafayette
Treas., D. D. Gardele..... "
Supt., J. O. Herpin..... "
Engr. P'g. Sta., J. E. Art..... "

Boiler, 450-hp. B. & W.; steam engine, 581-hp. Skinner.

LAKE CHARLES, 11,449.

LAKE CHARLES RY., LIGHT & WATER WORKS CO.

Pres., J. A. Landry.....Lake Charles
V. Pres. & Supt., T. J. Bird... " "
Treas., D. J. Landry..... " "
Sec., P. O. Moss..... " "

Calcasieu River and artesian well, 6-600 to 700 ft. deep; one mi. from center distribution; no purification.

Boilers, 4 hor. return tubular 150-hp. ea. Casey-Hedges; oil fuel; pumps, 2-1,500,000 gal. duplex Platt, 1-3,500,000 gal. Prescott; pumping to standpipe (1892) iron.

Pipe, 15 mi. 4 to 12-in. c. i., hyd. 165, hose con. 2½-in. Ludlow; serv. con. 850; ord. pres. 30 to 45 l.b, fire pres. 100 to 120 lb.

Rates; flat, $1.10 mo. with bath, closet 50c.; meter, min. charge $5. mo., 30c. 1000 gal. max., 8c. min.

LAKE PROVIDENCE, 1,568.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mgr., J. W. Read.....Lake Providence
Engrs. P'g. Sta.,
(George Whittington... " "
(Ernest Newman..... " "

Boilers, 225-hp. W. & W.; steam engines, 185-hp. Skinner.

LEESVILLE, 3,043.

LEESVILLE LIGHT & WATERWORKS CO.

Asst. Gen. Mgr., G. R. Ferguson, Jr. Leesville
Supt., W. K. Ferguson..... "
Ch. Engr. P'g. Sta., E. L. Dick... "

Wells, 3 4 to 8-in. 440 to 1100 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 4 hor. tubular 500-hp.; hand stoking; pumps, 1-720,000 gal. Worth.; air compressors, 2 Curtis & Gardner; pumping to elev. tank (1900) 50,000 gal.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in.; av. daily cons. 100,000 gal.; serv. con. 500; ord. pres. 45 to 62 lb., fire pres. 62 to 125 lb.

Rates; flat, $1 mo.; meter, 25c. 1000 gal.

MINTEN, 3,002.

MUNICIPAL.

Mayor, A. D. Turner.....Minten
Comr., E. Butler..... "
" O. T. Brake..... "
Sec., A. H. Phillips..... "
Supt., C. E. Beaird..... "

Wells, 2 10-in. 300 ft. deep; ½ mi. from center business section.

Boilers, 2 fire-tube 180-hp. ea. 150 lb. 1905; hand stoking; pumps, 1-1,000,000 gal. comp. duplex Platt 1905; air lifts & air compressors, 2 300 & 400 cu. ft. Ingersoll-Rand 1913 & Platt 1905; pumping to elev. tank (1904) 100,000 gal., Chicago Bridge & Iron Works.

Pipe, 6 mi. 4 to 10-in. c. i.; hyd. 55, hose con. 2½-in. Rensselaer; valves, 20 r. h. opening; meters, 110 National; av. daily cons. 100,000 gal.; serv. con. 265; ord. pres. 40 to 90 lb., fire pres. same.

Rates; meter, min. charge $1.50 mo. 4000 gal.; 25c 1000 gal. max., 20c min.

MONROE, 10,209.

MUNICIPAL WATER, LIGHT & TRACTION DEPARTMENT.

Mayor, A. A. Forsythe.....Monroe
City Clerk, E. W. Saulk..... "
Pur. Agt., D. L. Downey..... "
Supt., F. L. Meyer..... "

Boiler, 400-hp. B. & W.; steam engines, 300-hp.

MORGAN CITY, 5,477.

MUNICIPAL.

Mayor, M. Shannon.....Morgan City
Sec., A. B. O'Brien..... " "
Treas., J. E. Bass..... " "
City Engr. & Supt.,
T. G. Thorgeson..... " "
Des. Engr., X. A. Kramer. Magnolia, Miss.
Engr. P'g. Sta., H. Gant.....Morgan City

Atchfalaya River; settling basins, 10,000,000 gal.; coagulating basins, 84,000 gal.; mech. filters, 2-1,000,000 gal. ea. filtering area 162.5 sq. ft., Roberts; chemical, sulphate of alumina.

Boilers, 2 return tubular 100-hp. ea. 120 lb. Erie 1912; hand stoking; pumps, 3-1,000,000 gal. ea. hor. comp. duplex d. act. Platt 1912, 1-1,500,000 gal. hor. centrifugal Platt 1912 d. con. to steam engines, vert. American Blower 1912, 1-1,000,000 gal. hor. centrifugal Platt 1912 d. con. to steam engines, vert. American Blower 1912, 1-1,000,000 gal. hor. centrifugal Platt 1912 d. con. to steam engines, 1912; air compress., one 3 cu. ft. Root 1912; pumping to elev. tank, 100,000-gal. steel, Des Moines Bridge & Iron Co.

Pipe, 7.25 mi. 4 to 8-in. c. i.; hyd. 72, hose con. 2½-in. Eureka; valves, 95 l. h. opening; meters, 10 Pittsburgh; serv. con. 275; ord. pres. 43 to 54 lb., fire pres. 43 to 125 lb.

Rates; flat, $6 year, bath $3, closet $3; meter, min. charge $1 mo., 20c 100 cu ft. max., 6c min.

NAPOLEONVILLE, 1,201.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.

Chmn. Comrs.,
Clay Marquette.....Napoleonville
Comr., Philip Gilbert..... "
" Dr. L. Duffel..... "
Supt. & Engr. P'g. Sta.,
J. L. Landry..... "

Bayou Lafourche & wells, 2 6-in. 300 ft. deep; reservoir, 30,000 gal.

Pumps, 2-720,000 gal. & 1-72,000 gal. centrifugal Ft. Wayne 1913 d. con. to elec. motors, 2 35-hp. & one 10-hp. 2300 v. 3 ph. 60 cys. Ft. Wayne 1913, 2 3-ph. 220 v. s. ph. 60 cys. Ft. Wayne 1913; air compress., 120 cu. ft. Ft. Wayne 1913 driven by elec. motor; oil engine, 275-hp. ea. Diesel & Mietz & Weiss 1913; pumping to elev. tank (1904) 55,000 gal., iron.

Pipe, 2.5 mi. 4 & 6-in. c. i.; hyd. 15, hose con. 2½-in.; valves, 10 r. h. thd. Crane; av. daily cons. 100,000 gal. 96%; serv. con. 150; ord. pres. 58 lb., fire pres. same.

NATCHITOCHES, 2,532.

MUNICIPAL. NATCHITOCHES ELECTRIC & WATER. WORKS.

Mayor, J. W. Kile.....Natchitoches
Comr., B. K. Boydstern..... "
" H. Hughes..... "
Supt., N. E. Aymond..... "

Spring & wells, 5 12-in. 90 to 100 ft. deep; 1 mi. from center distribution; reservoir, 140,000 gal.

Boilers, 2 return tubular 80-hp. W. & W.; hand stoking; pumps, 2-1,296,000 gal. Platt; elec. motors, 3-10 kw. 220 v s. ph. 60 cys. Century, Wagner & G. E.; air compressor, Ft. Wayne; pumping to standpipe (1900) 60,000 gal. steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 39, hose con. 2½-in. Rensselaer; valves, 16 r. h. thd.; meters, 250 Hersey & Pittsburgh; av. daily cons. 140,000 gal.; serv. con. 400; ord. pres. 25 to 50 lb., fire pres. 50 to 70 lb.

Rates; meter, 35c. 1000 gal. max., 10c. min.

NEW IBERIA, 7,499.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.

Mayor & Trustee, A. Foncelieu.New Iberia
Trustee, A. C. Suberbielle..... " "
" & Supt.,
L. S. Villerman..... " "
Engr. P'g. Sta., John W. Angers. " "

Bayou Teche & wells, 2 8-in. 503 ft. deep; near center business section; reservoirs, 2-125,000 gal.; settling basins, 2-120,000 gal.; coagulating basins, 2-84,000,000 gal. mech. filters, 500,000 gal.; chemicals, sulphate of alumina & lime.

Boilers, 4 tubular 150-hp. ea. 100 lb. Brownell 1902; pumps, 2-1,000,000 gal. hor. comp. d. act. Worth. 1902, 1-2,000,000 gal. hor. d. act. Underwriters 1909; steam engines, two 75 & 125-hp. Harrisburgh 1902, one 250-hp. Hamilton 1909; pumping direct.

Pipe, 15 mi. 6 to 10-in. c. i.; hyd. 141, hose con. 2½-in. Bourbon; valves, 30 l. h. opening Bourbon; meters, 10 Neptune; av. daily cons. 400,000 gal. 50%; serv. con. 200; ord. pres. 50 to 60 lb., fire pres. 65 to 125 lb.

Rates; flat, $1 mo.; meter, min. charge $1 mo. 7000 gal., 15c 1000 gal. max., 6c min.

NEW ORLEANS, 339,075.

Pres. Comrs., Martin Behrman
New Orleans
V. Pres., Chas. J. Theard.... " "
Sec., F. S. Shields..... " "
Cons. Engrs., Rudolph Herring
& G. W. Fuller, 170 Broadway, New York
Gen'l. Supt., Geo. G. Earl....New Orleans
Engr. P'g. Sta., A. B. Wood.. " "
Chemist, John L. Porter..... " "

Mississippi River; 5 mi. from center distribution; settling & coagulating basins, 700 x 700 ft. divided into 4 coagulating basins, 2 grit basins & 2 lime mixing basins; mechanical filters, 66,000,000 gal.; chemicals, sulphate of iron & hypochlorite of lime.

Boilers, 3 water-tube 100-hp. ea. Heine, 6 water-tube 400 hp. ea. Heine (1908); hand & mechanical stoking, 6 Roney; pumps, 4-23,000,000 gal. vert. tri. exp. Allis C. (1908), 3-50,000,000 gal. ea. centrifugal Allis-C. (1908) d. con. to steam engine, comp. Corliss, 1-20,000,000 gal. centrifugal Allis-C. (1908) d. con. to steam engine, comp. Corliss, 1-1,000,000 gal. vert. centrifugal Worth. d. con. to elec. motor, 100-hp. 220 v. G. E., 1-4,000,000-gal. comp. duplex d. act. Epping-Carpenter (1908), 1-2,500,000 gal. centrifugal D'Olier (1908) d. con. to elec. motor, 85-hp. Westg., 2-4,000,000 gal. centrifugal D'Olier, d. con. to elec. motors, 30-hp. Westg., 1-1,000,000 turbine pump D'Olier (1908) d. con. to elec. motor, 40-hp. Westg., 1-2,000,-000 gal. centrifugal D'Olier (1908) d. con. to elec. motor, 15-hp. Westg., 2-3,880,000-gal. ea. centrifugal Camden (1908) d. con. elec. motors, 75-hp. Westg.; steam engines, 2 150-hp. ea. comp. Harrisburg d. con. to elec. generators, 100 kw. 250 v. Westg., 2 350-hp. ea. comp. Corliss d. con. to elec. generators, 2-150 kw. 220 v. d. c. Allis-C. (1908).

Pipe, 567 mi. 4 to over 30-in. c. i.; hyd. 5442, hose con. 2½-in. Camden; valves, 5176 r. h. opening Camden; meters, 46,000 various; av. daily cons. 22,000,000 gal.; serv. con. 46,000; ord. pres. 60 to 70 lb., fire pres. same.

Rates; meter, 10c. 1000 gal. max., 7c. min.

OPELOUSAS, 4,623.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.

Mayor, E. L. Loeb.....Opelousas
Supt., A. E. Jones..... "
Engr. P'g. Sta., Pierre Jidard..... "

Boiler, 285-hp. B. & W.; gasoline engine, 100-hp. Mietz & Weiss.

PLAQUEMINE, 4,955.
MUNICIPAL.
Supt., J. D. Fletcher.....Plaquemine

RAYNE, 2,447.
MUNICIPAL.
Mayor, J. D. Hunter.....Rayne
Sec., E. J. Besse..... "
Supt., E. J. Bertrand..... "
Engr. P'g. Sta., J. C. Bertrand..... "
Well, 10-in. 290 ft. deep; 1½ mi. from center distribution; no purification.
Boilers, 2 fire-tube 100-hp. Casey-Hedges; pumps, 2-1,152,000 gal. Platt d. con. and belted to crude oil engine, 60-hp. Snow; pumping to reservoir, 150,000 gal.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 32, hose con. 2½-in Rensselaer; valves, 6 r. h. thd.; meters, 105 Pittsburgh & Neptune; av. daily cons. 150,000 gal.; serv. con. 105; ord. pres. 30 to 40 lb., fire pres. 50 to 95 lb.
Rates; all meter, 20c. 1000 gal. max., 12c. min.

RAYVILLE, 1,079.
MUNICIPAL.
Mayor, W. J. Poleman.....Rayville

RUSTON, 3,377.
MUNICIPAL.
Supt., R. H. Brooks.....Ruston
Wells, 2 8 & 10-in. 800 ft. deep; ¼ mi. from center distribution.
Boilers, 2 hor. tubular 150-hp. B. & W., one tubular 100-hp. H. S. & G.; pumps, 1-1,000,000 gal. Platt, 1-1,440,000 gal. Blake; air compressors, 2 steam engine driven Ingersoll-Rand; pumping to reservoir, 95,000 gal. & elev. tank, 80,000 gal. iron.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 76, hose con. 4½-in. Rensselaer; meters, 400 National; av. daily cons. 330,000 gal.; ord. pres. 28 to 34 lb., fire pres. 140 lb.
Rates; meter, 25c. 1000 gal.

SHREVEPORT, 28,015.
SHREVEPORT WATERWORKS COMPANY.
(Controlled by American Waterworks & Elec. Co., 50 Broad St., New York.)
Pres., A. M. Lynn.....New York
V. Pres., M. F. Riley..... " "
Sec., B. M. Watt..... " "
Treas., G. F. Graham..... " "
Supt., W. R. Goss.....Shreveport
Des. Engr., G. W. Biggs..... " "
Engr., P'g. Sta., B. A. Baxter...Shreveport
Chemist, W. Donaldson..... " "
Red River & Cross Bayou; one mi. from center distribution; settling & coagulating basins, 180x23.5 ft.; mech. filters, 5,400,000 gal.; chemicals, liquid chlorine, sulphate of alumina & lime.
Boilers, 4 hor. tubular 400-hp. Atlas, Lookout & Pennsylvania; gas fuel; pumps, 5-18,600 gal. Worth. & Blake; air compressors, 2 Alberger; pumping direct & to standpipe (1887) steel.
Pipe, 40 mi. 4 to 16-in. c. i.; hyd. 494, hose con. 2½-in. Ludlow & Holyoke; valves, Ludlow; meters, 1758 Neptune, National & Thomson; av. daily cons. 3,500,000 gal.; serv. con. 4067; ord. pres. 80 lb.

THIBODAUX, 3,834.
MUNICIPAL.
City Engr., J. W. Byrnes.....Thibodaux
Bayou Lafourche; near center distribution.
Pumps, 3-360,000 gal. Lawrence d. con. to elec. motors, 20-hp. ea. 2300 v. 3 ph. 60 cys. Allis-C.; elec. energy from Munic. Light & Wtr. Plant; pumping to standpipe (1895).
Hyd. 96, hose con. 2½-in.; av. daily cons. 145,000 gal.; serv. con. 280; ord. pres. 35 to 50 lb.

WASHINGTON, 1,528.
MUNICIPAL.
Mayor, F. C. Martin.....Washington

WEST MONROE, 1,127.
MUNICIPAL.
Clerk, W. A. Kirkpatrick....West Monroe

WINNFIELD, 2,925.
MUNICIPAL.
City Clerk, John W. Wasson.....Winnfield

MAINE

AUBURN, 15,064.
MUNICIPAL.
Supt., F. E. Bisbee.....Auburn
Lake Auburn.

AUGUSTA, 13,311.
MUNICIPAL. Augusta Water District.
Pres. Trustee, T. J. Lynch.....Augusta
Treas., G. E. Macomber..... "
Trustee, Robt. Morang..... "
Cons. Engrs., Hazen & Whipple,
30 E. 42nd St., New York, N. Y.
Supt. & Engr., W. W. Albee.....Augusta
Engr. P'g. Sta., J. W. Graffam.... "
Carleton Pond; 9 mi. from center distribution; water shed is fenced & stripped of buildings & vegetation.
Boilers, one hor. tubular 150-hp. Portland; hand stoking; pumps, 1-3,500,000 comp. Deane; 1-2,000,000 gal. centrifugal, 1-3,000,000 gal. centrifugal d. con. to elec. motors,2 15 & 30-hp. 3 ph. 60 cys. G. E.; elec. energy from Central Maine Power Co.; pumping to reservoir, 6,000,000 gal. & standpipe, steel.
Hyd., hose con. 2½-in. Rensselaer & R. D. W.; valves, r. h. thd. Rensselaer; meters, National & Thompson; ord. pres. 25 to 130 lb., fire pres. same.
Rates; flat, $7, closet $3.

BANGOR, 24,803.
MUNICIPAL.
Supt., M. A. Sinclair.....Bangor
Engr. P'g. Sta., J. W. Dougherty... "
Chemist, J. M. Cairce..... "
Penobscot River, 2 mi. from center distribution; settling & coagulating basins, 1,500,000; mechanical filters, 8,000,000 gal.; chemicals, sulphate of alumina & hypochlorite of lime.
Boilers, 2 150 & 300-hp.; pumps, 2-1,000,000 gal. Deane steam & water turbine driven; pumping to standpipe (1897) steel.
Hyd. 112, hose con. 2½ & 4-in. R. D. W. & Holly; valves, 550 l. h. thd. Eddy; meters, 125 National; av. daily cons. 4,000,000 gal.; serv. con. 3100; ord. pres. 40 to 120 lb.

BAR HARBOR, 2,500.
BAR HARBOR WATER COMPANY.
Supt., A. H. Grindle.....Bar Harbor

BATH, 5,396.
BATH WATER COMPANY.
Gen. Mgr., G. H. Humphreys.....Bath
Supt., W. F. Abbott..... "

BELFAST, 4,628.
BELFAST WATER COMPANY. Office, Belfast, Me., & 14 Beacon St., Boston, Mass.
Pres., Wm. Wheeler.....Boston
Treas. & Pur. Agt., Albert Wheeler. "
Supt., J. D. Walker.....Belfast

BELGRADE, 1,037.
MUNICIPAL.
Supt., Chas. A. Hill.....Belgrade

BETHEL, 834.
BETHEL WATER CO.
Pres., E. S. Kilborn.....Bethel
V. Pres., W. W. Hastings..... "
Sec. & Treas., A. E. Herrick..... "
Supt., T. F. Hastings..... "
Mountain stream; 1½ mi. from center distribution.
Gravity distribution from reservoir, 600,-000 gal.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 4-in.; serv. con. 250; ord. pres. 80 lb., fire pres. same.

BIDDEFORD, 17,079.
BIDDEFORD & SACO WATER CO.
Office, Biddeford, Me. Supplies Saco, Old Orchard & Scarboro.
Pres. & Gen. Mgr., G. F. West.. Portland
V. Pres., F. E. Richards..... "
Treas., E. C. Hersey..... "
Supt., James Burnie..... "
Saco River; settling & coagulating basin, 225,000 gal.; mechanical filters, 4,500,000 gal.; chemical, sulphate of alumina.
Boilers, 2 hor. tubular 275-hp. ea. Portland; hand stoking; pumps, 1-4,500,000 gal. Worth., 1-3,000,000 gal. Deane; pumping to reservoir, 10,000,000 gal. & standpipe (1908) & (1906) steel.
Pipe, 50.83 mi. 4 to 30-in. c. i.; hyd. 281, hose con. 2½-in. R. D. W.; valves, 630 r. h. opening; meters, 516 Pittsburgh, Hersey, National, Neptune & Thompson; av. daily cons. 1,730,000 gal.; serv. con. 4200; ord. pres. 22 to 83 lb., fire pres. same.
Rates; flat, $7 year, bath $4, closet $5; meter, min. charge $8 6 mo., 25c. 1000 gal.

BINGHAM, 775.
MUNICIPAL.
Trustees, H. I. Goss.....Bingham
" E. R. Taylor..... "
" S. J. Whitney..... "
Sec., Treas. & Supt., C. E. Millett "
Jackson Pond fed by springs; 4 mi. from center distribution.
Gravity distribution from reservoir, 500,-000 gal.; a steam mill in town has a pump which can be used as an auxiliary for fire purposes if reservoir should be dry.
Hyd. 27, hose con. 2½-in. R. D. W.; valves, 25 r. h. thd. R. D. W.; meters, one Pittsburgh; serv. con. 175; ord. pres. 75 to 90 lb., fire pres. same.
Rates; flat, $6 year, bath $2, closet $3.

BOOTHBAY HARBOR, 2,021.
MUNICIPAL. Supplies Southport.
Chmn. Comrs.,
H. W. Bishop.....Boothbay Harbor
Comr., George Reed..... " "

Comr., E. B. Lewis.....Boothly Harbor
Sec. & Treas.,
H. W. Bishop..... " "
Supt., Wm. Ladder..... " "
Chemist, B. A. Evans.....Augusta
Adam's Pond; reservoir, 240,000 gal.; no purification.

Boiler, one 65-hp. 80 lb. Hodge 1892, one hor. 80-hp. 90 lb. Portland 1914; hand stoking; pumps, 1-720,000 gal. hor. simple Deane 1892, 1-864,000 gal. hor. comp. Deane 1906; pumping to standpipe (1892) 240,000 gal.

Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 52 hose con. 2½-in. Ludlow; valves, 26 r. h. opening Ludlow; meters, 18 National; av. daily cons. 125,000 gal. 95%; serv. con. 300; ord. pres. 85 lb., fire pres. same.

Rates; flat, $8 year, bath $4, closet $4.80; meter, 25c 100 cu. ft.

Partly supplied by Portland Power & Development Co. See Damariscotta.

BREWER, 5,667.

Supplied by Bangor Railway & Elec. Co. See Veazie.

BRIDGTON, 1,474.

BRIDGTON WATER & ELECTRIC CO.
Pres., W. E. Sanborn.....Springvale
Treas., Mrs. E. S. Gleason.....Bridgton
Gen. Mgr., C. E. Gleason..... "
Engr. P'g. Sta., H. J. Keene..... "
Highland Lake; 1 mi. from center distribution.

Pumps, 1-288,000 gal. Platt, 1-576,000 gal. Platt driven by elec. motor, 235-hp. 2200 v. 2 ph. 60 cys. G. E.; pumpi g to reservoir, 400,000 gal. & standpipe (1902) iron.

Hyd. 45 R. D. W.; av. daily cons. 100,000 gal.; serv. con. 404; ord. pres. 50 to 135 lb., fire pres. same.

BROWNVILLE, 1,808.

THE BROWNVILLE MAINE WATER CO.
Pres. & Supt., C. H. Dunnlng...Brownville
Treas., G. L. Herrick..... "
Clerk, A. T. Moulton..... "
Spring; ¾ mi. from center distribution.

Gravity distribution from reservoir, 25,000 gal.

Av. daily cons. 4000 gal.; serv. con. 80; ord. pres. 83 lb.

Rates: flat, $8 year, barh $4.

BRUNSWICK, 5,341.

MUNICIPAL. Supplies Topsham.
Pres. Bd. Trustees,
W. R. Lincoln .....Brunswick
Trustee, David W. Scribner..... "
" H. C. Baxter..... "
Supt., C. L. Bowker..... "
Wells, 80 tubular 18 to 35 ft. deep; one mi. from center distribution.

Boilers, 2 return tubular 125-hp. ea.; hand stoking; pumps, 2-3,500,000 gal. L-D-G. & Deane; pumping to reservoir, 2,500,000 gal. & to standpipe (1912) concrete.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 130, hose con. 2½-in. R. D. W.; valves, r. h. thd.; meter, 1000 mostly Neptune; av. daily cons. 450,000 gal.; serv. con. 1050; ord. pres. 50 to 76 lb.

BUCKFIELD, 357.

BUCKFIELD WATER, POWER & ELECTRIC LIGHT CO.
Pres., H. A. Irish.....Buckfield
Treas., C. R. Taylor..... "
North Pond; 3 mi. from center distribution.

Hyd. 23; ord. pres. 75 lb.

CALAIS, 6,116.

MAINE WATER CO.
Pres., Samuel C. Manley.....Calais
Treas., A. S. Bosworth..... "
Supt., Irving R. Bradley..... "
Engr. P'g. Sta., W. B. Getchell..... "
Spring; 4 mi. from center distribution.

Pumps, 2 driven by gas producer engines; pumping to reservoirs, 2-3,500,000 gal.

Hyd. 134, hose con. 2½-in. R. D. W. & Chapman; valves, r. h. thd. Chapman; meters, 50 National; av. daily cons. 700,000 gal.; serv. con. 1401; ord. pres. 910 lb.

Rates; flat, $7 year, bath $5, closet $5; meter, 25c. 100 cu. ft.

CAMDEN, 3,015.

CAMDEN & ROCKLAND WATER COMPANY.
Supt., Mr. Crocker.....Camden

CARIBOU, 5,377.

CARIBOU WATER, LIGHT & POWER CO.
Pres., Treas. & Mgr., R. C. Gary...Caribou
Sec., H. E. Donworth..... "
Water-turbines, 350-hp. Leffel; steam engines, 150-hp.

CORINNE, 1,237.

This system is used for fire purposes only.
J. G. Gray.....Corinne
Impounding reservoir.

Pumps, 1-1,000,000 gal. driven by water turbine.

Pipe 3000 ft. 6-in.; hyd. 10.

CUMBERLAND, 1000.

FORESIDE WATER CO. Office, 33 Plum St., Portland, Me. Supplies Falmouth. For officers see Portland Water District, Portland.

Buy water from Portland Water District. Gravity distribution.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 2½-in. R. D. W.; valves, 27 r. h. thd. R. D. W.; meters, 31 National; av. daily cons. 60,000 gal.; serv. con. 200; ord. pres. 40 to 60 lb., fire pres. same.

Rates; flat, $8 year, bath $5, closet $5; meters, min. charge $15 year, 25c. 100 cu. ft. max., 15c. min.

DAMARISCOTTA, 771.
PORTLAND POWER & DEVELOPMENT CO. Supplies Newcastle, Nobleboro, Wiscasset & Boothbay Harbor.
Pres., H. M. Castner.....Damariscotta
Treas., K. M. Dunbar..... "
Little Lake, 3½ mi. from center distribution.
Gravity distribution, reservoir 300,000 gal.
Serv. con. 350; ord. pres. 110 lb.

DOVER, 2,091.
DOVER & FOXCROFT WATER DISTRICT. Office, Dover.
Supt., E. E. Hescock.....Dover

EASTPORT, 4,936.
EASTPORT WATER CO.
Pres., I. H. Dyer.....Eastport
Treas., Chas. S. Morton..... "
Supt., Theo. Crosby..... "
Cons. Engr., E. B. Cummings....Portland
Engr. P'g. Sta., J. E. Crosby.....Eastport
Little River; 6 mi. from center distribution; no purification.
Boilers, one hor. 90-hp. Allen; hand stoiking; pumps, 1-46,000 gal. Knowles; pumping to standpipe (1888) iron.
Hyd. 63, hose con. 3-in. Chapman; meters, 28 National; av. daily cons. 350,000 gal.; serv. con. 642; ord. pres. 48 to 80 lb., fire pres. same.
Rates; flat, min. $10 year; meters, 30c. 1000 gal.

ELLSWORTH, 5,549.
BAR HARBOR & UNION RIVER POWER CO.
Pres., John R. Graham.....Ellsworth
Gen. Mgr., Morris McCormick... "
Treas., Howard Corning..... "
Supt., L. H. Cushman..... "
Cons. Engr., C. N. Tolman..... "
Streams & Ponds; 1 mi. from center distribution; no purification.
Boilers, one tubular 250-hp. Cunningham; hand stoking; pumps, 2-1,200,000 & 1,000,000 gal. Dean; elec. motor, 85 kw. 2300 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 300,000 gal. & standpipe (1889) iron.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. R. D. W.; balves, 75 l. h. thd. R. D. W.; av. daily cons. 616,000 gal.; serv. con. 600; ord. pres. 69 to 115 lb., fire pres. same.
Rates; flat, $10 year, bath $4, closet $4.

EUSTIS, 508.
EUSTIS WATERWORKS. (Privately owned.)
Owner, O. Blanchard.....Eustis
Spring & reservoir, 50,000 gal.; 2 mi. from center business section.
Gravity distribution; pipe, 2.25 mi. 2-in. galv. i.; hyd. none; serv. con. 125; ord. pres. 125 lb.
Rates; flat, $10 6 mo., bath $4, closet $4.

FAIRFIELD, 2,801.
Supplied by Kennebec Water District. See Waterville.

FALMOUTH, 1,488.
Supplied by Foreside Water Company. See Cumberland.

FARMINGTON FALLS, 412.
FARMINGTON FALLS WATER CO.
Mgr., C. A. Croswell.....Farmington Falls
Springs; 1.25 mi. from center distribution; gravity distribution from reservoir; pipe, 2.5 mi. 2-in. galv. i.; serv. con. 40; ord. pres. 100 lb.
Rates; meter, $2 quarter.

FORT KENT, 3,710.
FORT KENT WATER CO. (Operated by Moore & Co., of Boston, Mass.)
Supt., J. O. Michaud .....Fort Kent
Des. Engr., F. E. Cole..... " "
Small brook & spring; 2 mi. from center distribution; no purification.
Gravity distribution from reservoir, 500,000 gal.
Hyd. 40, hose con. 2½-in. Ludlow; meters, none; serv. con. 95; ord. pres. 80 lb., fire pres. 110 lb.
Rates; flat $10 year, bath $3, closets $5.

FOXCROFT, 1,867.
Dover & Foxcroft Water District. See Dover.

FREEPORT, 965.
FREEPORT WATER CO.
Supt., R. J. Dwyer.....Freeport

FRIENDSHIP, 776.
FRIENDSHIP WATER CO.
Supt., E. E. Jameson.....Warren
Springs & reservoir; near center business section; pumps, 2 driven by gasoline engine & windmills, 2; pumping to elev. tank, wood.

FRYEBURG, 540.
Pres. & Gen. Ngr.,
H. G. Toddon.....East Conway
Sec., Geo. L. Warren.....Fryeburg
Treas. & Pur. Agt., W. S. Carbos. "
Mountain streams; 3 mi. from center business section; gravity distribution from standpipe (18882).
Pipe, 3 mi. 4 to 10-in. c. i.; hyd. 17, hose con. 2½-in. R. D. W.; valves, R. D. W.; meters, none; ord. pres. 50 lb.
Rates; flat, $9 year, bath $2.50, closet $2.50.

GARDINER, 5,311.
MUNICIPAL. Gardiner Water District.
Chmn. Comrs., L. C. Ballard.....Gardiner
Treas., Henry Richards..... "
Sec., E. L. Russell..... "
Supt., S. D. Soule..... "
Cobbossecontee River; one mi. from center distribution; slow sand filter, 2,000,000 gal.

Pipe, 21 mi. 4 to 12-in. c. i.; hyd. 80, hose con. 2½-in.; valves, 196 r. h. thd. Chapman; meters none; av. daily cons. 750,000 gal.; serv. con. 1400; ord. pres. 40 to 105 lb.; fire pres. same.

Rates; flat, $6 year, bath $5, closer $5; meter, 25c. 100 cu. ft.

GORHAM, 2,822.

Supplied by the Portland Water District. See Portland.

Gravity distribution from standpipe, steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. R. D. W.; valves, 25 r. h. thd. R. D. W.; meters, 39 various; av. daily cons. 60,000 gal.; serv. con. 270; ord. pres. 85 to 90 lb., fire pres. same.

Rates; flat, $8 year, bath $4, closet $5; meters, min. charge $7.50 6 mo. 25c. 100 cu. ft.

Rates; flat, $8 year, bath $4, closet $5; meters, min. charge $7.50 6 mo. 25c. 100 cu. ft.

GREENVILLE, 1,474.

GREENVILLE LIGHT & POWER CO.

Pres., Chas. D. Shaw.....Greenville
V. Pres., Wm. M. Shaw..... "
Sec. & Treas., F. W. Allen..... "
Mgr., W. G. Parker.....Foxcroft
Supt., L. M. Galusha.....Greenville
Engr. P'g. Sta., W. A. Wilt..... "

Squaw Pond; 5¾ mi. from center distribution; no purification.

Gravity distribution from reservoir, 300,000 gal.

Pipes, 9.25 mi. 4 to 12-in. c. i.; hyd. 39, hose con. 2½-in. Rensselaer; valves, 36 r. h. thd. Rensselaer; meters, 6 Neptune; serv. con. 100; ord. pres. 60 to 98 lb., fire pres. same.

Rates; flat, $8 year.

GUILFORD, 1,680.

GUILFORD WATER CO.

Pres., J. S. Williams.....Guilford
Treas. & Des. Engr., C. N. Taylor. "
Sec. & Supt., H. A. Elliott..... "

Bennett Pod fed by spring; 4 mi. from center distribution; no purification.

Gravity distribution from standpipe (1910) iron.

Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in.; meters, none.

HALLOWELL, 2,864.

HALLOWELL WATER CO.

Supt., C. A. Wall.....Hallowell

HARTLAND, 1,176.

HARTLAND WATER CO.

Pres., F. S. Burrill.....Hartland
Treas. & Des. Engr., C. N. Taylor
Wellesley, Mass.
Supt. & Gen. Mgr., H. A. Elliott
Guilford, Me.
Clerk, Howard Haley.....Hartland

Stafford Pond fed by springs; 6½ mi. from center distribution.

Gravity distribution.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 27. 27; hose con. 2½-in.; valves, r. h. thd. Chapman, meters, none; serv. con. 340; ord. pres. 80 lb., fire pres. same.

HEBRON, 603.

HEBRON WATER CO. Operated by trustees of Hebron Academy, supplies Hebron Academy, Maine Sanatorium and a few townspeople.

Treas., Wm. E. Atwood.....Hebron

Hall Pond; 3 mi. from center distribution.

Service con. 20; ord. pres. 90 lb.

HOULTON, 5,345.

MUNICIPAL. HOULTON WATER CO.

Pres., C. H. Pierce.....Houlton
Sec. & Treas., Joseph A. Browne... "
Supt., B. B. McIntyre..... "

Stream & springs; ½ mi. from center distribution.

Boiler, water-tube 125-hp. B. & W.; hand stoking; pumps, 3-3,500,000 gal.; elec. motor, 2-90 & 100 kw. 2200 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 2,000,000 gal.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 106, hose con. 2½ & 4-in. R. D. W.; av. daily cons. 500,000 gal.; ser. con. 1000; ord. pres. 60 to 100 lb., fire pres. same.

Rates; flat, $8 year, bath $4, closet $5.

ISLAND FALLS, 1,686.

ISLAND FALLS WATER CO. Office, 12 Pemberton Sq., Boston, Mass.

JACKMAN, 667.

JACKMAN WATER, LIGHT & POWER CO.

Pres., Alexis Daignault.....Montreal, Que.
V. Pres., Arthur G. Forest.....St. Francis
Sec., N. H. Ferland.....Jackman
Treas., Gen. Mgr. & Pur. Agt.,
Joseph Forest..... "
Engr. P'g. Sta., Hector Ferland.. "

Impounding reservoirs on Moose River, 2-100,000 gal.; 3 mi. from center business section.

Boiler, 20-hp. F. M. 1914; pumps, 1-144,000 gal. vert. triplex F. M. 1914 belted to gasoline engine, 20-hp. F. M. 1914; pumping to reservoirs, 2-100,000 gal.

Pipe, 4 mi. 4-in. galv. i.; hyd. 12. hose con. 2½-in. Kennedy; valves, 10 l. h. opening; meters, 10; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 140 lb., fire pres. same.

Rates; flat, $10 year, bath & closet $5; meter, 30c 1000 gal.

KENNEBUNK, 3,099.

MOUSAM WATER COMPANY. Supplies Biddeford & York.

Pres., George F. West.....Portland
Sec. Treas., Geo. W. Beyer..... "
Gen. Mgr. & Pur. Agt.,
N. N. West.....Kennebunk

Branch Brook River; 2 mi. from center distribution; slow sand filter, 3,000,000 gal.

Boilers, one hor. 325 lb. Portland 1895, 2 hor. 150 lb. Portland 1901; hand stoking; pumps, 1-1,000,000 gal. comp. d. act. Dean

1895, 1-1,500,000 gal. tri. exp. d. act. Deane 1901; pumping direct & to standpipes, 2 (1895, 1909) 850,000 gal.

Pipe, 69.5 mi. 2 to 12-in. c. & galv. i.; hyd. 219, hose con. 2½-in. R. D. W.; valves, 105 r. & l. h. opening R. D. W.; av. daily cons. 800,000 gal.; serv. con. 2300; ord. pres. 45 to 75 lb., fire pres. 60 to 80 lb.

Rates; flat, $4 6 mo., bath $2, closet $2.50.

KEZAR FALLS, *1,000.

KEZAR FALLS WATER COMPANY. Supplies South Hiram.

Pres., Treas. & Gen. Mgr.,
Allen Garner.....Kezar Falls
Sec., William A. Garner..... " "

Impounding reservoir, 225,000 gal. & well, 8-in. 250 ft. deep; ½ mi. from center business section.

Gravity distribution from reservoir; pipe, 5 mi. 4 to 8-in. c. i.; hyd. 23, hose con. 2½-in. Portland; ord. pres. 65 to 80 lb.

Rates; flat, $8 year, bath $10, closet $10.

KINGFIELD, 927.

KINGFIELD WATER CO.

Pres., E. F. Jenkins.....Kingfield
Treas. & Supt., H. S. Wing..... "

Tufts Pond; 4 mi. from center distribution; no purification.

Gravity distribution.

Pipe 6 & 8-in. c. i.; hyd. 30; serv. con. 100

Pipe, 6 & 8-in. c. i.; hyd. 30; serv. con. 100; ord. pres. 86 lb., fire pres. same.

LEWISTON, 26,247.

MUNICIPAL.

Pres. Comrs., Chas. Martel.....Lewiston
Supt., J. B. Longley..... "
Engrs. P'g. Sta. { James S. Hoy.. "
{ Chas. Wade.... "

Lake Auburn; 3 mi. from center distribution.

Pumps, 1-3,000,000 gal. Deane, 2-4,000,000 gal. ea. Worth.; driven by water turbine; pumping direct & to reservoirs (1878) 14,000,000 gal.

Pipe, 51 mi. 4 to 30-in. c. i.; hyd. 230, hose con. 2½-in. Chapman & Rensselaer; valves, r. h. opening mostly Chapman; meters, 260 National, Thomson, Pittsburgh & Standard; av. daily cons. 5,000,000 gal.; serv. con. 3100; ord. pres. 85 lb.

Rates; meter, min. charge $15 year, 3.5c. 1000 gal. min.

LINCOLN, 1,167.

LINCOLN WATER CO. Office, 12 Pemberton Sq., Boston, Mass.

Pres., Gen. Mgr. & Pur. Agt.,
J. J. Moore.....Hingham, Mass.
Sec., A. Weatherbee.....Lincoln
Treas., W. D. Haines.....Waterville

Round Lake; 5 mi. from center distribution.

Boiler, 150-hp.; pumps, 1-48,000 gal. hor. 1913; pumping to reservoir.

Pipe, 9 mi.; hyd. 30.

Rates; flat, $8 year, bath $3, closet $5.

LISBON FALLS, 1,585.

MUNICIPAL.

Chmn. Comrs., Geo. W. Beal..Lisbon Falls
Comr., W. A. Hollis..... " "
" E. E. Lord..... " "
Cons. Engr., L. W. Litchfield..Brunswick
Engr. P'g. Sta., Osborn Esbey..Lisbon Falls

Wells, 15 2½-in. 42 to 82 ft. deep; near center business section; reservoir, 900,000 gal.; no purification.

Pumps, 2-422,000 gal. vert. triplex Platt 1908-10, d. con. to oil engines, two 25-hp. De La Vergne 1909-10; pumping to standpipe (1909) 900,000 gal. concrete.

Pipe, 6 mi. 6 to 12-in. c. i.; hyd. 58 hose con. 2½-in. R. D. W.; valves, 122 r. h. opening Kennedy; meters, 250 National; av. daily cons. 750,000 gal. 75%; serv. con. 415; ord. pres. 40 to 80 lb., fire pres. same.

Rates; meter, min. charge $7 year 2800 cu ft., 25c 100 cu ft. max., 5c min.

LIVERMORE FALLS, 2500.

LIVERMORE FALLS WATER DISTRICT.

Pres. Trustees, P. H. Gordon..Livermore Falls
Trustee, H. E. Hutchinson.. " "
" H. C. Whittemore.. " "
" H. A. Morrison.... " "
Supt., O. L. Hardy..... " "

LUBEC, 3,363.

MUNICIPAL.

Supt., J. H. Gray.....Lubec

MACMAHAN, *300.

SHEEPSCOT ISLAND CO.

Pres., Geo. E. Hughes
53 Front St.....Bath, Me.
Supt., F. L. Ryder.....MacMahan
Engr. P'g. Sta., P. D. MacMahan "

Artesian well, 240 ft. deep & open wells.

Pumps driven by gasoline engines, four 6-hp. F. M.; pumping to elev. tank, 30,000 gal. wood.

Pipe, 8 mi. ¾ to 2-in. galv. i.; meters, 30 National.

MADISON, 2,408.

MADISON WATER COMPANY. Office, Gardner, Me.

Pres., Weston Lewis.....Gardner
Sec., Treas. & Gen. Mgr.,
Josian F. Maxcy..... "
Pur. Agt. & Supt., E. M. Fletcher..Madison

Kennebec River; pumps, one Blake 1891 & one Platt 1891 driven by gasoline engine; pumping to reservoir, 500,000 gal.

Pipe, 4 to 10-in. c. i.; hyd., hose con. 2½-in. Ludlow; valves, Ludlow; av. daily cons. 300,000 gal.

Rates; flat, $8 year, bath $5, closet $5.

MECHANIC FALLS, 1,678.

MECHANIC FALLS WATERWORKS. (Privately owned.)

Owner, Edward Woodman.....Portland
Supt., A. L. Frank.....Mechanic Falls

MEXICO, 2,065.

Supplied by Rumford Falls.

MILBRIDGE, 1,550.
MILBRIDGE WATER CO.
Pres. & Treas., Jasper Wyman...Milbridge
Supt. & Engr. P'g. Sta., C. F. Dixson..... "
Well, 2 ft. in diam. 28 ft. deep; 1¾ mi. from center distribution.
Pump driven by gasoline engine, 3-hp. Gray; pumping to reservoir, 20 x 35 ft.; serv. con. 143; ord. pres. 30 to 45 lb., fire pres. same.

MILLTOWN, 876.
Supplied by Maine Water Co. See Calais.

MILO, 2,556.
MILO WATER CO.
Treas., W. S. Owen.....Milo

MONSON, 1,243.
MONSON WATER CO.
Owner, W. H. Eldridge.....Monson
Spring & well, 2-315 ft. deep; ½ mi. from center distribution.
Pump driven by elec. motors, 11 kw. 110 v. s. ph. G. E.; pumping to reservoir, 65,000 gal.
Av. daily cons. 6000 gal.; serv. con. 50; ord. pres. 25 lb.

MOUNT DESERT, 1,569
NORTHEAST HARBOR WATER CO.
Pres., R. B. Moffat.....Mount Desert
V. Pres., Lincoln Cromwell.. " "
Treas., J. S. Melcher..... " "
Clerk, J. H. Knowles..... " "
Supt., C. D. Joy..... " "
Engr. P'g. Sta., C. P. Simpson " "
Hadlock Ponds; 1¼ mi. from either distribution; no purification.
Gravity distribution & pumps, 2-374,000 & 518,000 gal. Knowles belted to gasoline engine, 2 12 & 18-hp. Olds; pumping to standpipe (1904) iron.
Pipe, 5.5 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. R. D. W.; valves, 30 r. h. thd. Matthews; meters, none; serv. con. 277; ord. pres. 35 to 70 lb., fire pres. same.

NEWCASTLE, 1,066.
Supplied by Portland Power & Development Co. See Damariscotta.

NEWPORT, 1,747.
NEWPORT WATER COMPANY.
Supt., G. M. Barrows.....Newport

NEW SHARON, 959.
NEW SHARON WATER CO.
Pres., A. B. Head.....New Sharon
Treas., W. W. Norcross..... " "
Supt., C. A. Thompson..... " "
Wells, 2 6-in. 53 & 57 ft. deep; one mi. from center distribution; no purification.
Pumping by windmill to reservoir, 200,000 gal.
Hyd., one, hose con. 2½-in. Chapman; valves, 7 l. h. thd.; meters, none; serv. con. 35; ord. pres. 200 lb., fire pres. same.
Rates; flat, $8 year.

NOBLESBORO, 775.
Supplied by Portland Power & Development Co. See Damariscotta.

NORRIDGEWOCK, 1,608.
NORRIDGEWOCK WATERWORKS. (Privately owned.)
Owner & Supt., S. S. Ames...Norridgewock
Owner, Mr. Gilman..... "
Brooks; pumping to standpipe.

NORTH BRIDGTON, 280.
NORTH BRIDGTON WATER CO.
Treas., C. H. Gould.....North Bridgton
Supt., Henry W. Evans..... " "
Spring; 1¼ mi. from center distribution.
Gravity distribution; serv. con. 31.

NORTH NEW PORTLAND, 360.
NORTH VILLAGE WATER CO.
Pres., Fred Knowles....No. New Portland
Treas., M. W. Clark.... " " "
Clerk & Mgr., W. B. Clark " " "
Spring; 1½ mi. from center distribution.
Pumps, 1-1,296,000 gal. Myers driven by gas engine, 3½-hp. New Way; pumping to reservoir.
Meters, 40 Hersey; av. daily cons. 2000 gal.; serv. con. 40; ord. pres. 70 to 78 lb.

OLD ORCHARD, 961.
Supplied by Biddeford & Saco Water Co. See Biddeford.

PATTEN, 1,406.
NORTHERN PENOBSCOT WATER CO.
This Company is not yet in operation.
Supt., R. D. Gardner.....Patten
Spring; ½ mi. from center distribution.

PINE POINT, 150.
Supplied by Biddeford & Saco Water Co. See Biddeford.

PITTSFIELD, 2,231.
MUNICIPAL.
Comr. & Supt., A. H. Burse.....Pittsfield
" W. L. Frost..... "
" C. F. Seekins..... "
Sebasticook River and wells, 3-12 ft. in diam. 34 ft. deep; 1 mi. from center distribution.
Pumps, 1-720,000 gal. Deane driven by water turbine, 50-hp.; pumping to standpipe (1894) iron.
Hyd. 70, hose con. 2½-in. Coffin; valves, 50 r. h. thd. Coffin; av. daily cons. 3000 gal.; serv. con. 570; ord. pres. 65 to 80 lb., fire pres. 85 to 100 lb.
Rates; flat, $6 year, bath $4, closet $4.

PORTLAND, 58,570.
MUNICIPAL. Portland Water District. Supplies Portland & Westbrook.
Pres., Wm. L. Blake.....Portland

Treas., Jas. W. Graham.....Portland
Supt., E. R. Dyer..... "
Chemist, James M. Caird..... "
Sebago Lake; 17 mi. from center distribution; chemical, hpochlorite of lime.
Gravity distribution from reservoirs, 2-30,000,000 gal.
Pipe, 236 mi. 4 to 30-in. c. i. & cement lined; hyd. 1023, hose con. 2½-in. R. D. W.; valves, 1373 r. h. thd. various; meters, 3203 various; av. daily cons. 10,000,000 gal.; serv. con. 16,000; ord. pres. 20 to 120 lb., fire pres. same.
Rates; flat, $5 year, bath $4, closet $4; meter, min. charge $2.50 quarter 1500 cu. ft., 20c. 100 cu. ft. max., 7c. min.

PRESQUE ISLE, 2,938.
PRESQUE ISLE WATER CO.
Supt., E. A. Allen.....Presque Isle.

RICHMOND, 1,858.
RICHMOND WATERWORKS. (Privately owned).
Pres., J. A. Morrill.....Auburn
Clerk & Audr., John A. Waterman, Gorham
Treas. & Supt., J. W. Randlette, Richmond
Kennebec River; at center distribution.
Boiler, hor. tubular 45 hp.; pumps, 1-864,000 gal. Blake, 1-480,000 gal. Worth.; pumping direct & to reservoir, 800,000 gal.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 41, hose con. 2½-in. Chapman; valves, 12 l. h. thd.; meters, 6 Buffalo & National; av. daily cons. 96,000 gal.; serv. con. 300; ord. pres. 40 to 73 lb., fire pres. same.
Rates; flat, $8 year, bath $5, closer $5.

ROCKLAND, 8,174.
CAMDEN & ROCKLAND WATER CO.
Supt., J. W. Crocker.....Rockland

RUMFORD, 5,427.
MUNICIPAL.
Trustee, C. M. Bisbee.....Rumford
" C. O. Osgood..... "
" Arthur Gauthier..... "
Cons. Engr., E. Worthington,
Dedham, Mass.
Supt., H. L. Elliott.....Rumford
Zircone Brook; 4 mi. from center distribution.
Gravity distribution from reservoir, 110,-000,000 gal.
Pipe, 21 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in. Pratt & Cady & Ludlow; valves, 170 l. h. opening various; meters, 60 National; av. daily cons. 425,000 gal.; ord. pres. 40 to 115 lb., fire pres. same.
Rates; flat, $8 year, bath $4, closet $4.

SACO, 6,583.
Supplied by Biddeford & Saco Water Co. See Biddeford.

SANFORD, 9,049.
SANFORD WATER CO.
Pres., E. M. Goodall.....Sanford
V. Pres., E. E. Hussey..... "
Treas., G. H. Nowell.....Sanford
Supt., F. L. Andrews..... "
Des. Engr., Frank A. Clark..... "
Engr. P'g. Sta., Bradley H. Cook... "
Springs & wells, 15 2 & 6-in. 20 ft. deep; one mi. from center distribution.
Pumps, 2 Goulds & Platt; pumping to reservoir, 830,000 gal.
Hyd. 68, hose con. 2½-in. R. D. W.; valves, 75 l. h. thd. Kennedy & Chapman; meters, 900 National, Thompson, Worthington and Neptune; av. daily cons. 235,000 gal.; serv. con. 1500; ord. pres. 90 to 100 900 lb., fire pres. same.
Rates; meter, 25c. 1000 gal.

SCARBORO, 1,945.
Partly supplied by Biddeford & Saco Water Co. See Biddeford.

SCARBORO WATER CO.
Pres., Frank E. Moss.....Scarboro
Treas. & Supt., F. P. Murray..... "
Springs; 1 mi. from center distribution; settling basins 100 x 100 ft.
Pumps, 1-65,000 gal. triplex driven by gasoline engine, 6-hp.; pumping direct & to elev. tank, 15,000 gal. wood.
Av. daily cons. 20,000 gal.; serv. con. 93; ord. pres. 20 lb.
Rates; flat, $8 year, bath $5, closet $3.

SKOWHEGAN, 5,341.
COBURN AQUEDUCT CO.
Pres., J. P. Merrill.....Skowhegan
Treas. & Gen. Mgr., B. A. Sawyer "
Springs with gravity distribution.
Valves, 23 r. h. thd. Jenkins; av. daily cons. 4,000 gal.; serv. con. 83; ord. pres. 30 lb.

SOUTH BERWICK, 2,935.
SOUTH BERWICK WATER CO.
Pres. & Treas.,
E. B. Davidson.....South Berwick
Supt., J. W. Everett..... " "
Small pond supplied by spring; ½ mi. from center business section.
Boiler, one fire-tube 100 lb. Cunningham; 1-170,000 gal. vert. triplex Platt belted to elec. motor, 40-hp. 220 v. 3 ph. 60 cys. Triumph; pumping to reservoir, 1,000,000 gal.
Pipe, 5 mi. 6 to 8-in. c. i.; hyd. 36, hose con. 2-in.; valves, 17 l. h. opening Chapman; meters, 7 National; av. daily cons. 50,000 gal.; serv. con. 226; ord. pres. 75 to 80 lb., fire pres. 75 to 100 lb.
Rates; flat, $8 year, bath $6.75, closet $6.75; meter, $20 year 40,000 gal., 50c 1000 gal. max., 30c min.

SOUTH HIRAM, 200.
Supplied by Kezar Falls Water Company. See Kezar Falls.

SOUTH PARIS, 1,542.
MUNICIPAL.
Supt., Chas. W. Bowker.....South Paris

Ch. Engr., L. E. Scruton, Portsmouth, N. H.
Brook; 4 mi. from center distribution.
Gravity distribution reservoirs, 2-1,500,-000 gal.
Hyd. 37; meters, 6 National; av. daily cons. 134,000 gal.; serv. con. 169; ord. pres. 84 lb., fire pres. same.
Rates; meter, 20c. 1000 gal. max., 9c. min.

SOUTHPORT, 409.
Supplied by Booth Bay Harbor.

SOUTH PORTLAND, 7,471.
Supplied by Portland.

SOUTHWEST HARBOR, 888.
SOUTHWEST HARBOR WATER CO.
Pres., J. D. Phillips.....Southwest Harbor
Sec. & Treas., J. R. Fuller. " "
Supt., H. L. Gray..... " "

SOUTH WINDHAM, *1,000.
Supplied by Portland Water District.
Supt., John Byrne.....Westbrook

STONINGTON, 2,039.
MUNICIPAL. STONINGTON WATER CO.
Supt. & Engr. P'g. Sta., R. C. Small, Stonington
Cons. Engr., L. C. Cumming....Portland
Pond; one mi. from center distribution.
Boilers, vert. 75-hp. Hodge; hand stoking; pumps, 756,000 gal. steam; pumping to standpipe (1900) steel.
Pipe, 3.5 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in.; valves, 40 l. h. thd. R. D. W.; meters, none; av. daily cons. 100,000 gal.; serv. con. 130; ord. pres. 60 to 78 lb., fire pres. 60 to 110 lb.
Rates; flat, $10 year, bath $3, closet $4.

TOPSHAM, 2,016.
Supplied by Brunswick & Topsham Water Co. See Brunswick.

UNION, 1,233.
UNION WATER COMPANY.
Pres., F. U. Burkett.....Union
Sec., Treas. & Gen. Mgr., F. E. Burkett..... "
Springs & artesian wells, 6-in. 144 ft. deep; ¾ mi. from center distribution; no purification.
Pumps, 1-10,000 gal. hor. simple c. & f. wh. Deming 1914 driven by gasoline engine; pumping to reservoir, 500,000 gal.
Pipe, 2 mi. 6 & 8-in. w. i.; hyd. 3, hose con. 2½-in.; serv. con. 60; ord. pres. 60 lb., fire pres. same.
Rates; flat, $8 year, bath $4 ,closet $4.

VAN BUREN, 3,065.
Municipal. Van Buren Water District.
Trustee, W. F. Paradis.....Van Buren
" J. J. Cyr..... " "
" J. L. Violette..... " "
Supt., W. H. Scott..... " "
Streams; 2 mi. from center distribution; no purification.

Pumps, 1-624,000 gal. F. M. driven by gasoline engine, 40-hp. F. M.; pumping direct & to reservoir, 500,000 gal.
Pipe, 7.5 mi. 6 to 10-in. c. i.; hyd. 60, hose con. 2½-in. Ludlow; valves, 35 r. h. thd. Ludlow; meters, 1 Hersey; av. daily cons. 100,000 gal.; serv. con. 362; ord. pres. 25 to 40 lb., fire pres. 65 to 80 lb.
Rates; flat, $10 year, bath $2, closet $5.

VEAZIE, 557.
BANGOR RAILWAY & ELECTRIC CO. Supplied Brewer. Office, Bangor.
Pres. & Gen. Mgr., John R. Graham.Bangor
V. Pres., Frank Silliman, Jr.. Phila., Pa.
Treas., Howard Corning.....Bangor
Pur. Agt., W. L. Sortelle..... "
Supt., A. C. Sparks.....Brewer
Des. Engr., L. D. Thorpe....Boston, Mass.
Engr. P'g. Sta., George Hathorne....Veazie
Chemist, H. D. Evans State Laboratory, Augusta
Penobscot River; ½ mi. from Veazie & 4 mi. from Brewer; mech. filters, 3,000,000 Warren & Norwood.
Pumps, 2-2,000,000 gal. hor. centrifugal G. E. 1913 d. con. to elec. motors; steam engine, 80-hp. Deane 1891; pumping to standpipe, 530,000 gal.
Pipe, 4 to 12-in. c. i.; hyd. 20, hose con. 2½-in. R. D. W.; valves, 20 l. h. opening Eddy; serv. con. 112; ord. pres. 60 lb., fire pres. 90 to 100 lb.
Rates; flat, $1.25 quarter, bath 55c., closet 75c.

WALDOBORO, 2,656.
WALDOBORO WATER CO.
Mgr., T. F. Turner.....Waldoboro

WATERVILLE, 11,458.
WATERVILLE WATER DISTRICT. Supplies Fairfield.
Pres. Trustees, S. B. Thayer....Waterville
Trustee, B. I. Connor..... "
" S. A. Nye..... "
Supt., A. S. Hall..... "
Clerk & Treas., George K. Boutelle..... "

WARREN, 1,800.
WARREN WATER SUPPLY CO.
Supt., E. E. Jameson.....Warren
Artesian well, 1200 ft. deep; ¾ mi. from center distribution; no purification.
Pump driven by gasoline engine, 4-hp. Hamilton; pumping to reservoir, 100 ft. in diam. 10 ft. deep.
Hyd. 12, hose con. 3 & 4-in. R. D. W.; meters, none; av. daily cons. 20,000 gal.; serv. con. 170; ord. pres. 83 lb.; fire pres. same.
Rates; flat, $8 year, bath $2, closet $4.

WESTBROOK, 8,281.
Supplied by Portland Water District. See Portland..

WINTER HARBOR, 590.

THE GRINDSTONE NECK WATER CO.
Pres., S. C. Wetherill.....Winter Harbor
V. Pres. & Treas., Chas. T. Cresswell..... " "
Clerk & Supt., Geo. C. Blouse " "
Cons. Engr., C. P. Simpson.....Sullivan
Engr. P'g. Sta., M. J. Harmon, Winter Harbor

Birch Pond; 1¼ mi. from center distribution; no purification.

Boilers, 2 verticle & hor. 3-hp. ea. Erie; hand stoking; pumps, 3-300,000 gal ea. Snow; pumping to standpipe (1890) iron.

Pipe, 3.5 mi. 4 to 12 in. c. i.; hyd. 17, hose con. 2½-in R. D. W. & Pratt & Cady; valves, 26 r. h. thd. R. D. W.; meters, none; av. daily cons. 100,000 gal.; serv. con. 124; ord. pres. 35 to 85 lb., fire pres. same.

Rates; flat, $10 year, bath $2.50, closets $2.50.

WINTERPORT, 1,582.

WINTERPORT WATER COMPANY.
Pres., G. W. Beyer.....Portland
Treas., T. F. West..... "
Supt., Lewis Atwood.....Winterport

Reservoir; boiler, one.

WINTHROP, 2,114.

WINTHROP COLD SPRING CO.
Pres., L. T. Carleton.....Winthrop

Artesian wells, 3-140 to 240 ft. deep; ½ mi. from center distribution.

Gravity distribution; av. daily cons. 2000 gal.; serv. con. 20.

Rates; flat, $8 year.

WISCASSETT, 1,287.

Supplied by Portland Power & Development Co. See Damariscotta.

YORK, 2,802.

Supplied by Mousam Water Company. See Kennebunk.

MARYLAND

ABERDEEN, 616.
MUNICIPAL.
Supt., Paul Krause.....Aberdeen
Springs; pumping.

ANNAPOLIS, 8,609.
MUNICIPAL.
Supt., George P. Melvin.....Annapolis
Wells, surface tubular; pumping; pipe, 18 mi.

BALTIMORE, 558,485.
MUNICIPAL.
Acting Engr., Robt. L. Clemmitt, Baltimore
Cons. Engr., Ezra B. Whitman. . "
Supt. Mech. Div., A. O. Babendreier..... "
Chemist, J. Bosley Thomas..... "
Gunpowder River & Jones Falls; 7 mi. from center distribution; chemicals, hypochlorite of lime & sulphate of alumina.
Boilers, 4 water-tube 100-hp. 125 lb., National, one Atlas, 4 water-tube 200-hp. National, 4 water-tube 206-hp. 175 lb. B. & W., 2 water-tube 150-hp. 125 lb. Campbell & Zell, 2 water-tube 215-hp. 125 lb. Campbell & Zell; hand & mechanical stoking, Roney & Taylor; pumps, 2-4,000,000 gal. ea. tri. exp. Worth. (1897) 1-10,000,000 gal. hor. tri. exp. Worth 1897, 1-10,000,000 gal. hor. comp. Worth. 1894, 1-17,500,000 gal. hor. tri. exp. Worth. 1900, 1-30,366,000 gal. vert. tri. exp. Bethlehem 1913; pumping direct to reservoir & standpipe.
Pipe, 772 mi. 4 to 48-in. c. i.; hyd. 3689, hose con. 2½ in. Baltimore City; valves, r. h. thd. various; meters, 3800; av. daily cons. 75,150,000 gal.; serv. con. 115,200; ord. pres. 40 to 100 lb. fire pres. 100 to 300 lb.
Rates, according to frontage.

BELAIR, 1,005.
BELAIR WATER & LIGHT CO.
Springs & wells; pumping; pipe, 6.5 mi.

BERLIN, 1,317.
MUNICIPAL.
Supt., J. A. Boston.....Berlin
Wells, tubular; pumping; pipe, 2 mi.

BLUE RIDGE SUMMIT.
BLUE RIDGE WATER CO. Office, 611 Park Ave., Baltimore.
Pres., Dr. Joseph Roach.....Baltimore
Wells, tubular; pumping; pipe, 5 mi.

BOONSBORO, 759.
BOONSBORO WATER CO.
Supt., F. E. Young.....Boonsboro
Surface water; gravity distribution; pipe, 4 mi.

BRADDOCK HEIGHTS.
BRADDOCK HEIGHTS WATER CO.
Surface water; pumping; pipe, 1.5 mi.

BROOKLYN, *1,000.
BROOKLYN & CURTIS BAY LIGHT & WATER CO.
Wells, tubular; pumping; pipe, 9.8 mi.

BRUNSWICK, 3,721.
MUNICIPAL.
Chmn. Comrs., G. E. Pullett....Brunswick
Comr., J. H. Moles..... "
" C. D. Foster..... "
Engr. P'g. Sta., J. H. Mills..... "
Well, 8-in. 315 ft. deep; ½ mi. from center distribution.
Pumps, 1-108,000 gal. Goulds & 1-432,000 gal. Deming belted to gasoline engine, 15-hp. Otto & d. con. to elec. motor, s. ph. Century; elec. energy from Harpers Ferry Elec. Light & Power Co.; pumping to standpipe (1907) wood.
Meters, 80 various; av. daily cons. 50,000 gal.; serv. con. 480; ord. pres. 120 lb., fire pres. same.
Rates; flat, 50c mo.; meter, 30c 1000 gal.

BURKITTSVILLE, 228.
BURKITTSVILLE WATER CO.
Spring; gravity distribution; pipe, 2 mi.

CAMBRIDGE, 6,407.
DORCHESTER WATER CO.
Pres., Geo. W. Woolford.....Cambridge
V. Pres., James C. Leonard..... "
Sec. & Treas., K. J. Foble..... "
Gen. Mgr. & Pur. Agt.,
J. A. Jordan..... "
Artesian wells, 5 2 to 10-in. 375 ft. deep; near center business section.
Boiler, hor. 80-hp. 90 lb. Keeler 1893; most of power furnished by Cambridge Ice Co.; pumps, 1-500,000 gal. hor. duplex d. act. Deane 1893, 1-1,000,000 gal. hor. duplex d. act. Deane 1893, 1-1,000,000 gal. vert. duplex d. act. Epping-Carpenter 1910, 1-1,000,000 gal. vert. c. & f. wh. Goulds 1910; gasoline engine, 50-hp. National 1910; pumping direct & to standpipe (1893) 115,000 gal.
Pipe, 18 mi. 2 to 10-in. w. i.; hyd. 50, hose con. 2½-in. R. D. W.; valves, 77 l. h. opening R. D. W.; meters, 83 National; av. daily cons. 1,200,000 gal.; serv. con. 1706; ord. pres. 40 to 54 lb., fire pres. same.
Rates; flat, $6 year, bath $3.60, closet $3.60; meter, 25c 1000 gal. max., 12.5c min.

CENTERVILLE, 1,435.
MUNICIPAL.
Pres., A. Green.....Centerville
Sec., C. Q. Snyder..... "
Treas., T. R. Price..... "
Mgr. L. D. Shank..... "
Artisian wells; ½ mi. from center distribution; no purification.
Boilers, 2 return tubular, 50-hp.; hand stoking; pumps, 1-1,008,000 gal. steam

Snow, 1-647,000 gal. driven by elec. motor, 10 kw. 320 v. 3 ph. 60 cys. Westg.; elec. energy from municipal plant; pumping to standpipe (1888) iron.

Pipe, 2.5 mi. 3 to 12-in. c. i.; hyd. 33, hose con. 3-in.; valves, r. h. thd.; meters, 6 Pittsburgh; av. daily cons. 235,000 gal.; ord. pres. 35 to 50 lb., fire pres. same.

Rates; meter, 25c. 1000 gal. max., 15c. min.

CHESTERTOWN, 2,735.

MUNICIPAL.

Pres., H. R. Graham.....Chestertown
Sec., W. M. Culp..... "
Treas. Chas. N. Satterfield... "
Supt., C. S. Smith..... "

Springs.

Boilers, 2 verticle 50 & 60-hp. Coatesville; hand stoking; pumps, 2-720,000 gal. Deane; pumping direct & to reservoir.

Pipe, 5 mi. 4 to 12-in.; hyd. 52, hose con. 3-in.; meters, 10 Neptune; av. daily cons. 150,000 gal.; serv. con. 350; ord. pres. 25 to 45 lb., fire pres. 40 to 75 lb.

Rates; meter, 20c. 1000 gal.

CRISFIELD, 3,468.

MUNICIPAL.

City Engr., G. B. Whealton.....Crisfield

Wells, tubular; pumping; pipe, 2 mi.

CUMBERLAND, 21,839.

MUNICIPAL.

Comr., Jos. S. Schriver.....Cumberland
Supt., A. G. Fowler..... "
Cons. Engrs., James H. Fuertes
140 Nassau St.....New York, N. Y.

Impounding reservoir fed by springs & 2 small streams, 1-5,500,000 gal.; 10 mi. from center business section; coagulating basin; mech. filters, 6-9,000,000 gal.; chemical, sulphate of alumina & hypochlorite of lime.

Gravity distribution from reservoir; pipe, 40 mi. 4 to 30-in. c. i.; hyd. 263, hose con. 2½-in. R. D. W. & Bourbon; valves, 150 r. & l. h. opening; meters, 160; av. daily cons. 7,000,000 gal.; serv. con. 6000 ;ord. pres. 60 to 125 lb., fire pres. same.

Rates; flat, $6 year, bath $3, closet $2; meter, min. charge $8 year, 7c 1000 gal. max., 5c min.

DELMAR,959.

DELMAR WATER CO.

Wells, tubular; pumping; pipe, 5 mi.

DENTON, 1,481.

MUNICIPAL; wells, tubular; pumping.

EASTON, 3,083.

MUNICIPAL.

Sec., John S. McDaniel.....Easton

Wells, tubular; pumping; pipe, 6.5 mi.

ELKTON, 2,487.

MARYLAND WATER CO.

Wec., John H. Cerrell.....Elkton

Elk River; pumping; pipe, 5 mi.

ELLICOTT CITY, 1,151.

ELLICOTT CITY WATER CO.

Suckar Branch; chemical, hypochlorite of lime; pumping; pipe, 1.5 mi.

EMMITSBURG, 1,054.

EMMITSBURG WATER CO.

Supt., A. A. Horner.....Emmitsburg

Wells, tubular; gravity distribution; pipe, 3.3 mi.

FEDERALSBURG, 1,050.

FEDERALSBUR WATER CO.

Owner & Supt., W. H. Davis, Federalsburg

Artesian wells, 2; near center distribution.

Pumps, 1-43,200 gal. Myers driven by gasoline engine, 5-hp. Gallaway; pumping to elev. tank, 10,000 gal. wood.

Pipe, 2 mi. 2 to 6-in. wood & iron; hyd. 4, hose con. 2½-in.; av. daily cons. 3500 gal.; serv. con. 135; ord. pres. 25 lb.

Rates; flat, $6 year, bath $6, closet $6.

FREDERICK, 10,411.

MUNICIPAL; stream; gravity distribution.

FROSTBURG, 6,028.

MUNICIPAL.

City Engr., William Harvey.....Frostburg

Springs; gravity distribution; pumping.

HAGERSTOWN, 16,507.

WASHINGTON COUNTY WATER CO.

Pres., Chas. S. Lane.....Hagerstown
V. Pres., S. B. Loore..... "
Sec., Wm. A. Armstrong..... "
Gen. Mgr., Albert Heard..... "

Mountain springs & impounding reservoir, 120,000,000 gal.; 8 mi. from center distribution; settling & coagulating basins, 3-300,000 gal. ; mechanical filters, 4,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 hor. 100 & 150-hp. ea. Erie; hand stoking; pumps, 2-4,000,000 gal. Worth.; elec. motors, 220 v. d. c. 3 ph. 2 cys. Crocker Wheeler; elec. energy from Hagerstown & Frederick Ry. Co.; pumping to reservoir, 10,000,000 gal.

Pipe, 63 mi. 4 to 12-in.; hyd. 107, hose con. 2½-in. R. D. W., Thomson, Darling & Eddy; valves, r. h. thd.; meters, 700 National, Thompson, Neptune & Hersey; av. daily cons. 2,750,000 gal.; serv. con. 5000; ord. pres. 50 to 65 lb., fire pres. 50 to 85 lbs.

Rates; meter, 30c. 1000 gal. max., 6.5c. min.

HAVRE DE GRACE, 4,212.

HAVRE DE GRACE WATER CO.

Supt., M. E. Lindasy.....Havre de Grace

Susquehanna River; mech. filters; pumping; pipe, 12.5 mi.

HYATTSVILLE, 917.

MUNICIPAL.

Coumcilman, John Sainter, Jr...Hyattsville

Wells, tubular; pumping; pipe, 5.7 mi.

LAUREL, 2,415.
MUNICIPAL.
Mayor, Geo. S. Waters.....Laurel
Supt. & City Engr., E. J. Rowe..... "
Springs; one mi. from center distribution; impounding reservoir, 1-215,000 gal.; chemical, hypochlorite of lime.
Boilers, 3 hor. return tubular 70, 80 & 150-hp. Erie & Union; hand stoking; pumps, 2-2888,000 & 1,520,000 gal. Platt; 2-576,000 gal. driven by elec. motors; pumping to standpipe, iron.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 40 Ludlow; meters, 60 various; av. daily cons. 175,000 gal.; serv. con. 250; ord. pres. 35 to 62.5 lb., fire pres. 60 to 80 lb.
Rates; flat, $3 year; meter, 35c. 1000 gal. max., 10c. min.

LONACONING, 1,553.
LONACONING WATER CO.
Pres., A. M. Evans.....Lonaconing
Surface water; pumping & gravity; pipe, 14 mi.

MIDLAND, 1,173.
MIDLAND-ELK LICK WATER CO.
Supt., Archibald Evans.....Midland
Surface water; gravity distribution; pipe, 5.8 mi.

MOUNTAIN LAKE PARK, 335.
MOUNTAIN LAKE WATER & LIGHT CO.
Supt., L. D. Yoder...Mountain Lake Park
Springs; gravity distribution; pipe, 5.5 mi.

OAKLAND, 1,366.
MUNICIPAL.
Supt., Harry Lowenstine.....Oakland
Wells, tubular; pumping; pipe, 4 mi.

PERRYVILLE, 635.
PERRYVILLE WATER CO.
Surface water; chemical, hypochlorite of lime; gravity distribution; pipe, 4 mi.

POCOMOKE CITY, 2,369.
MUNICIPAL.
Mayor, T. J. Pell.....Pocomoke City
Clerk, C. N. Walters..... " "
City Engr., Mr. Stevenson.. " "
Wells, tubular; pumping.

PORT DEPOSIT, 1,394.
PORT DEPOSIT WATER CO.
Treas., J. P. C. Hopkins.....Port Deposit
Surface water; gravity distribution; pipe, 2 mi.

PRINCESS ANNE, 1,006.
MUNICIPAL; well, tubular; pumping.

RIDGELY, 943.
MUNICIPAL.
Pres. Comrs., J. M. Swing.....Ridgely
Sec. & Treas., F. M. Long..... "
Supt., W. W. Smith..... "
Wells, 2-in. 50 to 80 ft. deep; near center business section.
Pump driven by gasoline engine, 20-hp. Otto 1904; pumping to elev. tank (1904) 70,000 gal. wood; hyd. 35, hose con. 2-in. Anderson; valves, r. h. opening; serv. con. 100; ord. pres. 45 lb., fire pres. same.
Rates; flat, $3 year, bath $2, closet $2.

ROCKVILLE, 1,181.
MUNICIPAL.
Engr., W. F. Disney.....Rockville
Wells, 2 8-in. 225 ft. deep; chemical, hypochlorite of lime.
Pumps, 3-144,000 gal. Goulds belted to gasoline engine, 15, 20 & 25 hp. 2 Columbus & Otto; pumping to standpipe (1897) steel.
Hyd. 32, hose con. 2½-in. Rensselaer; valves, 15 r. h. thd. meters, 225 Thomson; av. daily cons. 25,000 gal.; serv. con. 225; ord. pres. 40 to 80 lb., fire pres. same.
Rates; meter, 25c. 1000 gal.

ROLAND PARK,
ROLAND PARK WATER CO.
Supt., Edward H. Bouton....Roland Park
Wells, tubular; pumping; pipe, 15 mi.

RUXTON,
RUXTON WATER CO. (Mail Baltimore.)
Wells, tubular; chemical, hypochlorite of lime; pumping; pipe, 2.5 mi.

SALISBURY, 6,690.
SALISBURY WATER CO.; wells, tubular; pumping.

TAKOMA PARK, 1,242.
MUNICIPAL. (Mail Washington, D. C.)
Chmn. Comrs., L. R. Grabill.Takoma Park
Comr., E. E. Blodgett..... " "
" H. E. Rogers..... " "
" H. F. Pass..... " "
Clerk, D. G. Davis..... " "
Engr. P'g. Sta., George Day.. " "
Impounding reservoir on Sligo Run, 1,000,000 gal.; 3 mi. from center business section; mech. filters, 300,000 gal. Pittsburgh; chemicals, sulphate of alumina & sodium carbonate.
Pumps, 2-300,000 gal. vert. triplex Rumsey 1900 d. con. to gasoline engines, two 35-hp. ea. Springfield 1900, 1-300,000 gal. hor. centrifugal Fairbanks 1910 belted to gasoline engine; pumping to standpipe (1900) 50,000 gal. & elev. tank (1900) 50,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. Ludlow; meters, 340 Thomson, Neptune & National; av. daily cons. 150,000 gal. 95%; serv. con. 340; ord. pres. 60 to 140 lb., fire pres. same.
Rates; all meter, min. charge $9 year 5000 cu. ft., 18c 100 cu ft. max., 15c min.

TANEYTOWN, 824.
MUNICIPAL.
Burgess, G. A. T. Garner.....Taneytown
Pres. Comrs., Judson Hill..... "
Des. Engr., O. T. Shoemaker... "
Engr. P'g. Sta., C. H. Hilterbrick "
Artesian wells, two 6-in. 100 & 120 ft. deep; ½ mi. from center business section; no purification.

Pump driven by gasoline engine, 6-hp. White & Middleton 1914; pumping to standpipe (1897) 92,000 gal.

Pipe, 2 mi. 4 to 10-in. c. i.; hyd. 26, hose con. 3-in.; meters, 6; serv. con. 140.

Rates; flat, $6 year, bath $3, closet $2; meter, 75c 1000 gal. max. ,35c min.

THURMONT, 906.

MECHANICTOWN WATER CO.

Pres., Peter N. Hamaker.....Thurmont
V. Pres., Dr. M. A. Birely..... "
Sec., L. S. Birely..... "
Treas., George W. Stockdale.... "
Gen. Mgr. & Pur. Agt.,
James C. Waesthe..... "

Impounding reservoir, 180,000 gal. on High Run Brine fed by springs; 1.5 mi. from center business section.

Gravity distribution from reservoir; pipe, 3.5 mi. 4 & 6-in. c. i.; hyd. 28, hose con. 2½-in. Drummond; valves, 10 l. h. opening; meters, 2 Thomson; av. daily cons. 300,000 gal.; serv. con. 150; ord. pres. 75 lb.

Rates; flat, $6 year, bath $3, closet $2.

WALKERSVILLE, *600.

THE WALKERSVILLE WATER CO.

Pres. & Sec.,
John D. Nicodemus.....Walkerville
V. Pres., S. V. Harshman..... "
Treas., C. I. Jamison..... "
Supt., T. S. Albough..... "

Springs; 4.5 mi. from center business section; settling basin ,500,000 gal.

Gravity distribution; pipe, 6 mi. 4 to 8-in. c. i.; hyd. 27, hose con. 4-in.; meters, 8; serv. con. 140; ord. pres. 20 to 75 lb., fire pres. same.

Rates; flat, $6 year, bath $3, closet $3.

WESTMINSTER, 3,275.

CONSOLIDATED PUBLIC UTILITIES CO.

Gen. Mgr., F. A. Myers.....Westminster
Pres., J. H. Gillingslea..... "
Sec., Treas. & Pur. Agt.,
E. L. Erb..... "

Wells, tubular & springs; gravity distribution; pipe, 12 mi.

WESTERNPORT, 2,702.

MUNICIPAL.

Supt., O. H. Grute.....Westernport

Savage & Potomac Rivers; chemicals, liquid chlorine & hypochlorite of lime; mech. filters; gravity distribution; pipe, 7.8 mi.

MASSACHUSETTS

ABINGTON, 5,455.

MUNICIPAL.

Supt., C. L. Baker.....Abington
Comr., J. P. Coughlin..... "
" A. B. Reed..... "

Supply from Pembroke. See Pembroke.

ACTON, 2,136.

MUNICIPAL. West and South Water Supply District of Acton. Office, West Acton.

Chmn. Comrs., Edgar H. Hall..West Acton
Engr. P'g. Sta., James Fitzgerald " "

Wells, 20 2½-in. 20-ft. deep; ½ mi. from center business section.

Pumps, 2-432,000 gal. vert. triplex geared to oil engines, 2 40-hp. Mietz & Weiss 1912; pumping to standpipe (1912) 504,000 gal.

Pipe, 11 mi. 6 to 12-in.; hyd. 100, hose con. 2½-in.; valves, 35 l. h. opening Pratt & Cady; meters, 300 National; av. daily cons. 42,000 gal. 95%; serv. con. 310; ord. pres. 65 to 110 lb., fire pres. same.

Rates; meter, min. charge $12 year 25,000 gal.

ADAMS, 13,026.

MUNICIPAL. Adams Fire District.

Comr., G. B. Adams.....Adams
" Paul Mooney..... "
" F. N. Waters..... "
Supt., M. H. Bourne..... "

Brooks & wells, 6 6-in. 105-ft. deep & impounding reservoir, 5,500,000 gal.; near center distribution; no purification.

Boilers, hor. 125-hp. Dillon; hand stoking; pumps, 1-2,500,000 gal., 1-1,500,000 gal. Deane; pumping to reservoir, 1-3,500,000 gal.

Pipe, 35 mi. 4 to 12-in. c. i.; valves, 100 l. h. thd. various; meters, 85 various; av. daily cons. 1,003,000 gal.; serv. con. 2500; ord. pres. 85 lb., fire pres. 90 lb.

AGAWAM, 3,501.

MUNICIPAL. Owned by the town of Agawam. Supplies Feeding Hills & Mittineague.

Chmn. Comrs., E. A. Kellogg. Feeding Hills
Comr., John Merrill..... "
" Dennis M. Crowley... " "

Buy water from the City of Springfield at a flat rate, tapping the Springfield main as it passes through the Town of Agawam.

AGAWAM WATER COMPANY. Supplies Agawam St. of the town of Agawam. This system has been largely replaced by the municipal one above. Owned by estate of C. L. Goodhue, Springfield.

Mgr., Dr. H. H. Huntington....Springfield

AMHERST, 5,112.

AMHERST WATER CO.

Pres., L. D. Hills.....Amherst
Sec. & Treas., H. T. Cowles..... "
Supt., C. R. Elder.....Amherst

Impounding reservoir on Amethyst Brook & spring in Pelham.

ANDOVER, 7,301.

MUNICIPAL.

Supt., F. L. Cole.....Andover
Cons. Engr., A. E. Hardy..... "
Asst. Supt., A. R. Morse..... "

Haggetts Pond; 5½ mi. from center distribution.

Boilers, 2 Wright & Stafford; hand stoking; pumps, 1-1,680,000 gal. steam Deane, 1-560,000 gal. Rumsey driven by oil engine, 100-hp. Mietz & Weiss; pumping to reservoir, 2-1,500,000,000 gal.

Pipe, 47.7 mi. 4 to 12-in. c. i.; hyd. 360, hose con. 2½-in. Ludlow; valves, l. h. thd. Rensselaer; meters, 1200 Neptune, Pittsburgh & National; av. daily cons. 625,000 gal.; serv. con. 1400; ord. pres. 10 to 1130 lb., fire pres. same.

Rates; flat, $6 year; meters, 30c. 1000 gal. max., 8c. min.

ARLINGTON, 11,187.

MUNICIPAL.

Supt., H. C. Clark.....Arlington
Clerk, Robert W. Pond..... "

Supplied by the Metropolitan Water District. See Boston.

Pipe, 40.92 mi.; hyd. 432; meters, 2438; av. daily cons. 786,300 gal.; serv. con. 2409.

ASHBURNHAM, 2,107.

MUNICIPAL.

Chmn. Comrs., F. L. Hardy...Ashburnham
Clerk, C. H. Pratt..... "
Comr., H. G. Howard..... "
Supt., T. W. Jones..... "

Neaukeag Lake.

Pumps, 1-144,000 gal. Deane belted to elec. motor, 15-hp. G. E.; pumping to standpipe (1912) concrete.

Pipe, 10 mi. 6 & 8-in c. i.; hyd. 54, hose con. 2½-in. Rensselaer; valves, r. h. thd. Rensselaer; meters, 220 National; ord. pres. 145 lb., fire pres. same.

ASHLAND, 1,682.

MUNICIPAL.

Comr., H. E. Warren.....Ashland
" W. G. Whittemore..... "
" J. E. Ryan..... "
Supt., E. R. Carpenter..... "

Wells, 12 2½-in. 22 to 35 ft. deep.

Pumps, 2-216,000 gal. Platt driven by oil engines, 2-18-hp. De La Vergne & Meitz & Weiss; pumping to standpipe (1911) concrete.

Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 59, hose con. 2½-in. Chapman; valves, 68 r. h. thd.; meters, 300 Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 325; ord. pres. 44 to 80 lb., fire pres. same.

Rates; meter, 25c. 100 cu. ft.

ATHOL, 8,536.

MUNICIPAL.

Chmn. Comrs. & Supt., H. L. Hapgood Athol
Sec., Frank C. Hall..... "
Comr., E. Warren Tyler..... "

Impounding reservoirs, 2-129,000,000 gal.; 4 mi. from center distribution; slow sand filters, 2-1,000,000 gals.; mech. filters, 2-4,000,000 gals.; chemical, sulphate of alumina.

Gravity distribution from reservoir, 2-3,200,000 gal.

Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 90, Rensselaer; valves, r. h. thd. Chapman; meters, 52 Hersey, National & Neptune; av. daily cons. 650,000 gal.; serv. con. 1372; ord. pres. 108 lb., fire pres. same.

Rates; flat, $10 year, bath $4, closet $4; meters, 25c. 100 cu. ft. max., 5c. min.

ATTLEBORO, 16,215.

MUNICIPAL.

Chmn. Comrs., A. N. Brownell...Attleboro
Clerk, H. P. Kent..... "
Comr., Frank Mossberg..... "
Supt., H. F. Conant..... "
Engr., P'g. Sta., Geo. Brook..... "

Seven Mile River & impounding reservoir, 1 - 50,000,000 gal.; 2 ½ mi. from center distribution; slow sand filters with clear water wells.

Boilers, 2; hand stoking; pumps, 3-9,000,000 gal. Snow, Barre & Deane; pumping to standpipe (1906), concrete.

Pipe, 69 mi. 4 to 24-in. c. i. & cement lined; hyd. 479, hose con. 2 ½-in. Rensselaer & Ludlow; valves, 872 Rensselaer; meters, 3470 various; av. daily cons. 1,000,000 gal.; serv. con. 3160; ord. pres. 85 to 100 lb.

AYER, 2,797.

MUNICIPAL.

Chmn. Comrs., E. O. Proctor.....Ayer
Comr., William F. Walsh..... "
" William Brown..... "
Town Clerk, R. B. Remick..... "
Supt., Elson H. Bigelow..... "
Cons. Engr., L. B. Thorpe,
201 Devonshire St., Boston

Wells, 25 2½-in. 27 ft. deep; ¾ mi. from center business section.

Boilers, hor. tubular 100-hp. Dillon (1898); pumps 1-1,000,000 gal. hor. tri. exp. d. act. Blake 1898, 1-500,000 gal. hor. duplex Davidson 1887 driven by water-turbine; pumping to standpipe (1910) 600,000 gal. & reservoir, 1 1,000,000 gal.

Pipe, 12.34 mi. 4 to 12-in. c. i.; hyd. 96, hose con. 2½-in. Ludlow; valves, l. h. opening; meters, 386 National & Neptune; av. daily cons. 183,000 gal.; serv. con. 592; ord. pres. 100 lb., fire pres. same.

Rates; flat, $6 year, bath $5, closet $4; meter, min. charge $10 year; 50c. 1000 gal. max., 45c. min.

BARNSTABLE, 4,676.

BARNSTABLE WATER CO. Supplies Hyannis and Hyannisport. Office, 59 Temple Place, Boston, Mass.

Pres., C. W. Young.....Barnstable
Treas., C. A. Currier..... "
Mgr. & Des. Engr., H. A. Symonds "
Supt., G. E. Palmer..... "

Wells, 42 2½ & 24-in. 20 to 30 ft. deep; reservoir, 367,000 gal.; pumps, 1-1,152,000 gal. Platt d. con. to oil engines, 250-hp. De La Vergne; pumping to standpipe (1911) steel.

Pipe, 11 mi. 4 to 12-in.; hyd. 68, hose con. 2 & 2½-in. Pratt & Cady; valves, 60 l. h. opening Pratt & Cady; meters, 10 Neptune; av. daily cons. 200,000 gal.; serv. con. 250; ord. pres. 78 to 95 lb., fire pres. same.

Rates; flat, $10 year; meters, 25c. 100 cu. ft.

BARRE, 2,957.

MUNICIPAL.

Comr. & Supt., Geo. W. Cook.....Barre
" C. H. Follensby..... "
" C. F. Atwood..... "

Springs & impounding reservoir, 1-12,-000,000 gal.; one mi. from center distribution; no purification.

Boiler, 30-hp.; pumps, 1-360,000 gal. steam Warren; pumping to reservoir, 300,000 gal.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 39, hose con. 2½-in. mostly Chapman; valves, 24 l. h. thd. Chapman; meters, 25 National & Buffalo; av. daily cons. 50,000 gal.; serv. con. 175; ord. pres. 65 to 150 lb., fire pres. same.

Rates; flat, $10 year; meters, 50c. 1000 gal. max., 25c. min.

BEDFORD, 1,321.

MUNICIPAL. Owned by the town.

Chmn. Comrs., George M. Dimond, Bedford
Comr., Henry D. Lyons..... "
" Paul B. Weber..... "
Cons. Engr., E. Worthington.....Dedham
Engr. P'g. Sta., B. A. Balance ....Bedford
Chemist, State Board of Health
State House, Boston

Well, 20 ft. in diam. 21 ft. deep; 2 mi. from center business section; reservoir, 4,000,000 gal.

Pumps, 2-360,000 gal. vert. triplex Platt 1909 d. con. to gasoline engines, 2 25-hp. Olds 1909; pumping to standpipe (1908) 235,000 gal. steel.

Pipe, 6 mi. 6 to 12-in. c. i. ;hyd. 49, hose con. 2½-in. Chapman; valves, 45 l. h. opening Chapman; meters, 200 Thomson; serv. con. 215; ord. pres. 55 to 95 lb., fire pres. same.

Rates; all meter, min. charge $10 yer 25,000 gal., 40c. 1000 gal. max., 25c. min.

BELMONT, 5,542.

MUNICIPAL.

Chmn. Comrs., Chas. J. McGinnis, Belmont
Sec. & Des. Engr., C. F. Sherman. "
Comr., W. F. Grimes..... "
Supt., E. J. Looney..... "

Supplied by the Metropolitan Water District. See Boston.

Pipe, 29.8 mi. 4 to 12-in. c. i.; hyd. 222, hose con. 2½-in. Chapman, Coffin & Ludlow; valves, 398 l. h. thd. Chapman, Coffin, Ludlow & Pratt & Cady; meters, 1242 Hersey, av. daily cons. 463,600 gal.; serv. con. 1242; ord. pres. 35 to 160 lb., fire pres. same.

Rates; meter, $3 1500 cu. ft., 15c. 100 cu. ft.

BEVERLEY, 18,650.

MUNICIPAL.

Comr., Jas. W. Blackmer.....Beverley

Supplied by the city of Salem. See Salem.

BLANDFORD, 717.

MUNICIPAL. Owned by the Fire District
Sec. Comrs., P. H. Robinson....Blandford
Town Clerk, E. W. Boise..... "

Freeland Brook.

BOSTON, 670,535.

METROPOLITAN WATER DISTRICT.

Owned, maintained and operated by the Metropolitan Water & Sewerage Board. Supplies Arlington, Belmont, Chelsea, Everett, Lexington, Malden, Medford, Melrose, Milton, Nahant, Newton, Quincy, Revere, Somerville, Stoneham, Swampscott, Watertown, and Winthrop. All these municipalities are located within a radius of ten miles of State House, Boston.

Ch. Engr., Dexter Brackett,
1 Ashburton Place.....Boston
Comr. Pub. Wks., L. K. Rourke,
607 City Hall Annex.....Boston
Div. Engr., F. A. McInnes..... "
Supt., Geo. F. Finneran..... "

Lake Cochituate, 2,242,400,000 gal., impounding reservoirs on Sudbury River, 8-13,612,600,000 gal. & Wachusett reservoir on Nashua River, 64,968,000,000 gal.; water is conveyed from the storage reservoirs to the outskirts of the Metropolitan District by masonry aqueducts as follows: Cochituate, 18,000,000 gal. 1847, Sudbury 103,000,000 gal. 1878, Wachusett 360,000,000 gal. 1898, Weston 300,000,000 gal. 1903.

Boilers, 3 hor. fire-tube Erie & Hodge 1901 & 1907, one Belcaire Erie, 2 vert. fire-tube Morris 1902, 3 vert. fire-tube Atlantic 1899, 2 vert. fire-tube Robb-Munford 1911, 3 vert. fire-tube Erie 1899, 2 hor. fire-tube Hodge 1907, 2 hor. fire-tube Robb 1912; pumps, 2-18,000,000 gal. ea. Holly 1887, 1-20,000,000 gal. Quintard 1895, 1 30,000,000 gal. Allis 1892, 3-35,000,000 gal. ea. Holly 1900, 1 - 40,000,000 gal. Holly 1911, 1 - 10,000,000 gal. Blake 1900, 1-20,000,000 gal. Holly 1900, 1 - 1,500,000 gal. Allis - C. 1908, 1-1,500,000 gal. Blake 1908, 2-3,000,000 gal. ea. L-D-G 1913; pumping to distributing reservoirs, with locations as follows: Stoneham, 1,791,700,000 gal., Boston 300,000,000 gal., Weston 200,000,000 gal., Stoneham 41,400,000 gal., Medford 26,200,000 gal., Brookline 15,500,000 gal., Newton 13,500,000 gal., Quincy 3,100,000 gal., Stoneham, 2,450,000 gal., Boston 2,500,000 gal. & to standpipe, Arlington 550,000 gal., Quincy 330,000 gal.

The following distribution system is for the City of Boston. For the distribution systems of the other towns in the Metropolitan District see under towns listed above.

Pipe, 819 mi. 4 to 60-in. c. i.; hyd. 8851, hose con. 2½ & 4¼-in. City of Boston; valves, 11,583 r. h. thd. City of Boston; meters, 4,168 various; av. daily cons. 79,390,600 gal.; serv. con. 100,626; ord. pres. 30 to 90 lb.

Rates; flat, according to valuation of property; meter, min. charge $8 year, 14c. 100 cu. ft. max., 8c. min.

BRADFORD.

Supplied by the City of Haverhill.

BRAINTREE, 8,066.

MUNICIPAL. Owned by the town.
Office, So. Braintree.
Chmn. Comrs., James C. Stevens,
So. Braintree
Comr., John Kelley ..... " "
" Wm. C. Harrison..... " "
Sec., Wm. L. Gage..... " "
Supt., Wm. E. Maybury..... " "
Engr. P'g. Sta., J.W. Multahy . " "

Lake & wells, 9 2 & 6-in. 18 ft. deep; 2 mi. from center business secrion; reservoir, 500,000 gal.; no purification.

Boilers, one return tubular 80-hp. 100 lb. Hodge 1914, 2 return tubular 100-hp. ea. 150 lb. Hodge 1913; hand stoking; pumps, 1-1,500,000 gal. hor. comp. c. & f. wh. Platt 1913, 1 - 1,000,000 gal. hor. comp. d. act. Blake 1905, 1-1,000,000 gal. hor. comp. d. act. Blake 1884; pumping to standpipe (1884) 500,000 gal.

Pipe, 42 mi. 4 to 16-in. c. i.; hyd. 260, hose con. 2½-in. Coffin & Rensselaer; valves, 457 l. h. opening Coffin & Rensselaer; meters, 1782 National; av. daily cons. 500,000 gal,; serv. con. 2095; ord. pres. 80 lb., fire pres. same.

Rates; flat, $1.50 quarter, bath 75c., closet 75c.; meter, 23c. 100 cu. ft.

BRIDGEWATER, 7,688.

BRIDGEWATER WATER CO. Supplies East Bridgewater.
Pres., E. M. Foss.....Bridgewater
Treas., Joseph Weeks..... "
Supt., John Mayo..... "

Wells, tubular & open near Town River.

BROCKTON, 56,878.

MUNICIPAL.

Chmn. Comrs., H. H. Williams...Brockton
Clerk, James J. Stack..... "
Supt., Horace Kingman..... "
Des. Engr., B. R. Chapman..... "
Engr. P'g. Sta., Geo. E. Bolling.. "

Silver Lake & impounding reservoir on Salisbury Brook.

Boilers, 2 water-tube 264-hp. Aultman & Taylor; hand stoking; pumps, 2-8,000,000 gal. ea. Barr & Holly; pumping to reservoirs, 2-4,000,000 gal. ea. & elev. tank, 50,000 gal. ea. steel.

Pipe, 140 mi. 4 to 30-in. c. i. & cement lined; hyd. 1120; valves, 1820 r. h. opening; meters, 9100; av. daily cons. 3,000,000 gal.; ord. pres. 40 to 90 lb., fire pres. same.

Rates; meter, 17c. 100 cu. ft. max., 10c. min.

BROOKLINE, 27,792.

MUNICIPAL.

Chmn. Comrs., Timothy J. Bourke, Brookline
Mbr., Geo. H. Francis..... "
" N. V. Walker..... "
Registrar, Zeph. R. Forbes..... "
Supt., Fayette F. Forbes..... "

Infiltration gallery & wells, 167 2½-in. 1500 ft. deep; 6 mi. from center distribution; no purification.

Boilers, 4 hor. tubular; hand stoking; pumps, 2-5,000,000 gal. Allis-C., 1-2,500,000 gal. Todd, 1-1,500,000 gal. Blake, 1-2,000,000 gal. Worth.; pumping to reservoir, 3-12,200,000 gal. & standpipe (1884) iron.

Pipe, 94.3 mi. 4 to 30-in. c. i.; hyd. 740, hose con. 2½-in. Ludlow, Coffin & Boston; valves, r. h. opening; meters, 5200 National, Hersey, Thomson, Union & Pittsburgh; av. daily cons. 2,709,000 gal.; serv. con. 5283; ord. pres. 40 to 100 lb., fire pres. same.

Rates; meter, 12c. 100 cu. ft.

CAMBRIDGE, 104,839.

MUNICIPAL.

Gen. Supt., E. W. Quinn.....Cambridge
City Engr., Lewis M. Hastings.. "
Registrar, Walter H. Harding... "

Brooks & ponds, 1.5 & 6.5 mi. from center distribution; impounding reservoirs, 3-3,322,000 gal.; no purification.

Boilers, 2 hor. tubular 800-hp., 2 hor. tubular 100-hp.; hand stoking; pumps, 1-20,000,000 gal. Groshon, 2-5,000,000 gal. ea. Worth., 1-2,250,000 gal. Blake; pumping to distributing reservoir, 43,000,000 gal.

Pipe, 133 mi. 4 to 30-in. c. i.; hyd. 1148, hose con. 2½-in. various; valves, 2195 various, meters, 5292 various; av. daily cons. 10,948,000 gal.; serv. con. 16,200; ord. pres. 50 to 55 lb., fire pres. same.

Rates; flat, $4 year, bath $3, closet $2; meters, 20c. 1000 gal. max., 10c. min.

CANTON, 4,797.

MUNICIPAL. Owned by the town.

Comr., M. F. Ward.....Canton

Wells, open & tubular at Springdale, large well at Henry's Spring, Stoughton.

CHARLTON, 2,032.

Owned by AKERS & TAYLOR. Used for fire protection only.

Pond; ½ mi. from center distribution.

Gravity distribution; pipe, one mi. 4 to 12-in.; hyd. 12; ord. pres. 50 to 70 lb.

CHELMSFORD, 5,010.

MUNICIPAL. Owned by the Chelmsford Fire District.

Pres., B. D. Armstrong.....Chelmsford
Sec., E. R. Clark..... "
Treas., W. A. Parkhuisi..... "
Supt., W. McMahon..... "
Cons. Engr., George Bowers.....Lowell

Wells, 15 3-in. 35 ft. deep; one mi. from center business section; reservoirs, 225,000 gal.

Pumps, 2-432,000 gal. vert. triplex Goulds 1914 d. con. to gas engines, 2 25 hp. Otto 1914; gravity distribution from reservoir, above.

Hyd. 48 Buffalo; meters, 250 Worth.; av. daily cons. 30,000 gal.; serv. con. 250; ord. pres. 50 to 90 lb.

Rates; meter, min. charge $12 year 40,000 gal.

CHELSEA, 32,452.

MUNICIPAL.

Comr., George Cassell.....Chelsea

Supplied by the Metropolitan Water District. See Boston.

Pipe, 42.7 mi. 2 to 16-in. c. i.; hyd. 36; valves, 473; meters, 4691; av. daily cons. 2,880,000 gal.; serv. con. 4768; ord. pres. 39 to 96 lb.

CHERRY VALLEY, 1,150.

CHERRY VALLEY & ROCHDALE WATER DISTRICT. Supplies Greenville & Rochdale.

Chmn. Comrs., Thanning Smith, Cherry Valley
Comr., Everett Carleton..... " "
Comr., E. J. Titcomb..... " "
Supt., Robert A. Cutting.... " "

Wells, 2 open 30 ft. in diam. 12 ft. deep; 2 mi. from center business section; reservoirs, 2-400,000 gal.

Pumps, 2-288,000 gal. vert. triplex Rumsey 1910 d. con. to oil engines, 18-hp. ea. Mietz & Weiss 1910; pumping to standpipes, 2 (1910) 400,000 gal. concrete.

Pipe, 11.5 mi. 6 to 12-in. c. i.; hyd. 68, hose con. 2½-in. Chapman & Rensselaer; valves, r. h. opening Chapman & Rensselaer; meters, 148 Union; av. daily cons. 80,000 gal.; serv. con. 268; ord. pres. 47 to 120 lb., fire pres. same.

Rates; flat, $2 quarter; meter, min. charge $2 quarter 700 cu. ft., 25c. 100 cu. ft. max., 10c. min.

CHESHIRE, 1,508.

CHESHIRE WATER CO.

Pres., Eugene B. Bowen.....Cheshire
Treas., R. B. Wood..... "
Supt., L. J. Northup..... "

Springs, brook & impounding reservoirs, 2; sand & charcoal filters.

Gravity distribution from reservoirs, above; pipe, 5 mi. 3 to 6-in. c. i.; hyd. 25, hose con. 2½-in.; serv. con. 150; ord. pres. 85 to 100 lb.

Rates; flat, $7 year, bath $3, closet $5.

CHESTER, 1,377.

MUNICIPAL. Owned by the Chester Fire District.

Supt., George Knowles.....Chester

Austin Brook.

CHICOPEE, 25,401.

MUNICIPAL.

Supt., C. A. Bogardus.....Chicopee
Chmn. Comrs., C. H. Pugere..... "
Comr., James J. Taylor..... "
Sec., Francis Hudson..... "
Clerk, Norman J. Lahay..... "
Des. Engr., F. P. Cobb..... "
Engr. P'g. Sta., J. J. Murphy.... "

Brooks; 2.5 mi. from center distribution; no purification.

Boilers, 2 hor. tubular 80-hp. Hawkins; hand stoking; pumps, 2,500,000 gal. Deane & Holly; gas engine, 10-hp. National; elec. motors, 2-100 kw. 220 v. 2 ph. 60 cys. G. E.; elec. energy from municipal plant; pumping direct & to standpipe, 2 (1893, 1909) iron.

Pipe, 65 mi. 4 to 30-in. c. i.; hyd. 350, hose con. 2½-in. Chapman, Rensselaer & Holyoke; meters, 1500 various; av. daily cons. 1,700,000 gal.; serv. con. 2500; ord. pres. 39 to 127 lb., fire pres. same.

Rates; flat, $4.50, bath $3, closet $2.50; meter, min. charge $1.50 875 cu. ft., 15c. 100 cu. ft.

CLINTON, 13,075.

MUNICIPAL. Supplies part of Lancaster.

Chmn. Comrs., N. E. Mather.....Clinton
Sec., N. L. Howe..... "
Comr., R. J. McIntyre..... "
Registrar, P. J. Cannone..... "
Supt., J. J. Philbin..... "
Cons. Engrs., F. W. Bateman & H. A. Thissell..... "

Brooks & ponds; 6 mi. from center distribution; no purification.

Gravity distribution from reservoir, 2,244,000 gal. & standpipe (1897) steel.

Pipe, 31 mi. 4 to 12-in. c. i.; hyd. 287, hose con. 2½-in. Rensselaer, Chapman & Coffin; valves, 273 r. h. thd. Chapman & Rensselaer; meters, 1629 various; av. daily cons. 613,000 gal.; serv. con. 2004; ord. pres. 8 to 75 lb., fire pres. 8 to 120 lb.

COHASSET, 2,585.

COHASSET WATER CO. Office, 12 Pemberton Sq., Boston.

Pres., John J. Moore.....Boston
Treas., B. T. Clark, 55 Kilby St..... "
Supt., D. M. Tower.....Cohasset

Infiltration galleries & wells, large open, & 60 2 & 2½-in. 25 to 50 ft. deep; scattered over the town; reservoir, 1,500,000 gal.; settling basin, 500,000 gal.; slow sand filter, 500,000 gal. Norwood.

Boiler, tubular 30-hp. 65 lb. 1886; pumps, one 750,000 gal. hor. comp. complex d. act. Blake 1886, 1 - 500,000 gal. vert. triplex belted to oil engine. Mietz & Weiss, 2-200,-000 gal. vert. triplex geared to oil engines, 2 De La Vergne; 2 hor. centrifugal belted & geared to elec. motors, 10 & 7.5-hp. G. E. pumping to reservoir, above.

Pipe, 17.5 mi. 4 to 12-in. c. i.; hyd., hose con. 2½-in.; meters, 20 National; av. daily cons. 500,000 gal.; serv. con. 676; ord. pres. 60 to 65 lb.

Rates; flat, $10 year, bath $5, closet $5; meter, min. charge 22.50$ year 10,000 cu. ft., 22.5c. 100 cu. ft. max., 20c. min.

CONCORD, 6,421.

MUNICIPAL.

Comr., Wm. Wheeler.....Concord
" E. E. Shattuck..... "
" Woodward Hudson..... "
Supt., Leonard P. Robinson..... "

Impounding reservoirs, 2-4,500,000 gal.; 2.5 mi. from center distribution; no purification.

Pumps, 1-600,000 gal. centrifugal Jeansville driven by elec. motor, 30-hp. 1100 v. 2 ph. 60 cys. Westg.; elec. energy from municipal plant; pumping direct & to reservoirs, above.

Pipe, 44.84 mi. 4 to 30-in. c. i. & cement lined; hyd. 228, hose con. 2½-in. Chapman, Coffin, Norwood & Boston; valves, 375 r. h. opening various; meters, 36 National, Pittsburgh & Hersey; av. daily cons. 500,000 gal.; serv. con. 1250; ord. pres. 25 to 100 lb., fire pres. 60 to 100 lb.

Rates; flat, $6 year, bath $4, closet $5; meters, min. charge $12 year, 20c. 100 cu. ft. max., 7.5c. min.

DALTON, 3,568.

MUNICIPAL.

Chmn. Comrs., F. G. Crane.....Dalton
Comr., F. W. Weston..... "
" W. M. Crane..... "
Supt., John Hardiman..... "
Cons. Engr., A. A. Fobes..... "

Springs; one mi. from center distribution; impounding reservoir, 10,000,000 gal.; settling basins, 25x125 ft.

Gravity distribution from reservoir, 4,000,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 110, hose con. 2½-in. Ludlow; valves, 50 l. h. thd. Ludlow; av. daily cons. 700,000 gal.; serv. con. 700; ord. pres. 100 lb.

DANVERS,, 9,407.

MUNICIPAL. Owned by the town. Supplies Middleton.

Comr., R. K. Lewis.....Danvers
" A. W. Beckford..... "
" R. Wheelright..... "
Supt. Henry Newhall..... "
Cons. Engr., L. D. Thorpe,
201 Devonshire St., Boston

Middletown Lake & Swan Pond; 5 mi. from center distribution.

Boilers, 2 hor. 50-hp. ea. Hodge; hand stoking; pumps, 1-2,000,000 gal. duplex Worth. 1876, 1-2,000,000 gal. duplex Worth. 1881, 1-1,500,000 gal. centrifugal Worth. driven by elec. motor, 20-kw. 220 v. 3 ph. 60 cys. G. E.; pumping to reservoirs, 2-6,500,000 gal.

Pipe, 51 mi. 4 to 30-in. c. i. & cement lined; hyd. 300, hose con. 2½-in. Newport, Ludlow & Chapman; valves, 516 Newport, Ludlow & Fairbanks; meters, 40 National, Worth,. Hersey, Neptune; av. daily cons. 1,250,000 gal.; serv. con. 2325; ord. pres. 25 to 100 lb., fire pres. same.

DEDHAM, 9,284.

DEDHAM WATER CO.
Pres., Winslow Warren.....Dedham
Supt., Geo. S. Staples..... "
Cons. Engr., P. N. Blake..... "

Wells, one 26 ft. in diam. 16 ft. deep, one 6 ft. in diam. 24 ft. deep, 28 4-in. 25 to 30 ft. deep; one mi. from center distribution.

Boilers, 2 hor. tubular, 100-hp. ea. Hodge; hand stoking; pumps, 2-2,500,000 gal. Holly & Bldrs. I. F.; pumping direct and to reservoirs, 3-805,500 gal.

Pipe, 38 mi. 4 to 12-in. c. i. & cement lined; hyd. 185, hose con. 2½-in. Ludlow & Coffin; valves, r. h. thd.; meters, 2200 various; av. daily cons. 1,124,000 gal.; serv. con. 2213; ord. pres. 50 to 75 lb., fire pres. same.

Rates; meter, 25c. 100 cu. ft.

DEERFIELD, 2,209.

DEERFIELD FIRE DEPARTMENT.
Treas., Albert Wheeler
14 Beacon Street.....Boston
Roaring Brook, Whately.

DRACUT, 2,461.

MUNICIPAL. Water Supply District.
City Engr., F. A. Bassett.....Dracut
Wells, tubular.

DRACUT WATER CO.
Supt., Frank H. Gunther.....Dracut
Wells, tubular.

DUDLEY, 4,267.

MUNICIPAL.
Chmn. Comrs., E. S. Stevens.....Dudley
Comr., Thomas McCann..... "
Supt. & Clerk, W. F. Delaney..... "

Wells, 7 tubular; 2 mi. from center distribution; no purification.

Pumps, 2 Rumsey driven by elec. motors; pumping to standpipe (1910) 770,000 gal. concrete.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 82, hose con. 2½-in. Chapman; valves, 48 r. h. thd. Chapman; meters, 300 Union & National; serv. con. 300; ord. pres. 15 to 130 lb.

Rates; meter, min. charge $10 year 25,000 gal., 40c. 1000 gal.

DUXBURY, 1,688.

MUNICIPAL.
Chmn. Comrs., P. L. Walker.....Duxbury
Sec., Ernest Wadsworth..... "
Treas., Chas. S. Clark..... "
Supt., L. M. Peterson..... "
Cons. Engr., W. S. Johnson,
101 Tremont St., Boston, Mass.

Wells, 22 2½-in. 25 to 32 ft. deep; 14 mi. from center distribution; reservoir, 330,000 gal.

Pumps, 2-475,000 gal. Deane d. con. to oil engines, 2 35-hp. ea. De La Vergne; pumping direct & to elev. tank (1914) concrete.

Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 144, hose con. 2½-in. Chapman; meters, 200 Hersey & Neptune; av. daily cons. 200,000 gal.; serv. con. 200; ord. pres. 65 to 90 lb.

Rates; all meter, min. charge $12 year 20,000 gal., 50c. 1000 gal. max., 30c. min.

EAST BRIDGEWATER, 3,363.

MUNICIPAL.
Supt., J. W. Halloway..East Bridgewater

Supplied by the City of Bridgewater. See Bridgewater.

EAST HAMPTON, 8,524.

MUNICIPAL.
Chmn. Bd. Pub. Wks, Samuel Brown,
East Hampton
Mbr., Wm. Campbell..... " "
" Joseph Taber..... " "
Supt., W. C. Tannatt, Jr.... " "

Wells, 27 2½-in. 20 to 50 ft. deep; 2 mi. from center distribution; reservoir, 1-2,000,-000 gal.

Boilers return tubular 150-hp. Allen; hand stoking; pumps, 2-1,000,000 gal. ea. Deane belted to elec. motors, 60 kw. 3 ph. 60 cys. G. E. & Crocker-Wheeler; steam engines, Corliss; pumping direct & to reservoir, above.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 310, hose con. 2½-in. Chapman & Norwood; valves, l. h. thd.; meters, 710 National & Neptune; av. daily cons. 650,000 gal.; serv. con. 1250; ord. pres. 45 to 113 lb., fire pres. same.

Rates; meters, min. charge $3 year, 12c. 100 cu. ft.

EAST LONGMEADOW, 1,553.

MUNICIPAL.
Chmn. Comrs., Frank C. Burton,
East Longmeadow
Comr., Frank H. Whitaker,
East Longmeadow
" John L. Davis " "
Town Clerk, O. L. Wolcott,
East Longmeadow

Cons. Engrs., Durkee, White & Bowne, Springfield

Supplied by the City of Springfield Water Dept. Water taken from Springfield main as it passes through East Longmeadow.

Pipes, 10 mi. 4 to 8-in. c. i.; hyd., hose con. 2½-in. Chapman & R. D. W.; valves, l. h. opening Chapman; meters, 130 Hersey; av. daily cons. 30,000 gal.; serv. con. 130; ord. pres. 30 to 95 lb., fire pres. same.

Rates; flat, $7 year; meter, min. charge $1.75 quarter 5000 gal., 22c. 100 cu. ft. max., 5c. min.

EASTON, 5,139.

MUNICIPAL. Owned by the Village District.

Well, large open.

EAST PEPPERELL, 2,100.

MUNICIPAL.

Supt., Perley Blake.....East Pepperell

ERVING, 1,148.

MUNICIPAL. Water Supply District. Supply from Montague.

EVERETT, 33,484.

MUNICIPAL.

Chmn. Bd. Pub. Wks., A. A. Thompson, Everett
Mbr., R. G. Chambers..... "
" W. J. Schoppelry..... "
" John J. Millen, Jr..... "
" Forman K. Robbins..... "
Supt., L. R. Woods..... "

Supplied by Metropolitan Water District. See Boston.

Pipe, 48.5 mi. 4 to 24-in. c. i.; hyd. 563, hose con. 2½-in. mostly Rensselaer & Chapman; meters, 2258 mostly Neptune & Worth.; av. daily cons. 2,435,800 gal.; serv. con. 5686; ord. pres. 40 to 97 lb., fire pres. same.

Rates; meters, 12.5c 100 cu. ft. max., 8c. min.

FAIRHAVEN, 5,122.

FAIRHAVEN WATER CO.

Supt., Henry Gidley.....Fairhaven

Wells, tubular near Nasketuckut & Mattapoisett Rivers.

FALMOUTH, 3,144.

MUNICIPAL.

Chmn. Comrs., A. L. Patten.....Falmouth
Sec., Chas. E. Hall..... "
Treas., S. A. Holton..... "
Cons. Engr., L. A. Taylor,
904 Tremont Bldg. ....Boston, Mass...
Engr. P'g. Sta., W. S. Nickerson..Falmouth

Long Pond; 3 mi. from center distribution; no purification. 3,000,000 gal. ea. Davidson; pumping direct & to standpipe, 3 (1888, 1902, 1912) steel & concrete.

Pipe, 52.3 mi. 4 to 30-in. c. i.; hyd. 170 hose con. 2½-in. Chapman; meters, 20 various; av. daily cons. 475,000 gal.; srv. con. 1200; ord. pres. 50 to 80 lb., fire pres. same.

Rates; meters, 25c. 1000 gal.

FALL RIVER, 119,295.

MUNICIPAL.

Pres. Comrs., R. F. Haffenreffer, Jr. Fall River
Comr., A. J. Brunelle..... " "
Actg. Supt., T. D. Kelly..... " "
Gen'l. Foreman, F. J. Clifford... " "

Watuppa Lake; 1¾ mi. from center distribution.

Boilers, 4 hor. return tubular 150-hp. ea. Hodge; hand stoking; pumps, 4-24,000,000 gal. Worth. & Davidson; pumping direct & to tanks, 4 iron & steel.

Pipes, 121.5 mi. 4 to 24-in. c. i.; hyd. 1468, hose con. 2½-in. Norwood & Boston; valves, 1868 Chapman, Rensselaer & Boston; meters, 9289 National, Hersey, Thomson & Neptune; av. daily cons. 636,000 gal.; serv. con. 9251; ord. pres. 19 to 130 lb.

FEEDING HILLS, 150.

Supply from CITY OF SPRINGFIELD WATER DEPARTMENT. See Agawam.

FITCHBURG, 37,826.

MUNICIPAL.

Chmn. Comrs., Thos. C. Sheldon.Fitchburg
Comr., A. A. Thain..... "
" Frank Foss..... "
Supt., A. W. F. Brown..... "

Lakes & Ponds; impounding reservoir, 1-1,200,000,000 gal.

Gravity distribution from reservoir, 62,-000,000 gal.

Pipe, 80 mi. 4 to 30-in. c. i.; hyd. 743, hose con. 2½-in. Chapman, R. D. W. & Rensselaer; valves, 833; meters, 4,855; av. daily cons. 3,500,000 gal.; serv. con. 5500; ord. pres. 60 to 80 lb., fire pres. same.

FLORENCE, 2,500.

Supply from NORTHAMPTON.

FOXBOROUGH, 3,863.

MUNICIPAL. Foxborough Water Supply District.

Chmn. Comrs.,
Orlando McKenzie.....Foxborough
Comr., W. R. Lewis..... "
" Forrest Bassett..... "
Cons. Engr., Frank L. Fuller...
12 Pearl St.....Boston
Engr. P'g. Sta., W. S. Hall.... "

Wells, 24 4-in. 20- ft. deep; 1.5 mi. from center business section; no purification.

Boilers, two return tubular 30-hp. ea. 77 lb. Robb-Mumford 1894, 1902; hand stoking; pumps, 2-720,000 gal. hor. comp. d. act. Blake-Knowles 1894 & 1902; air compressors, 2; pumping to standpipe (1894) 282,000 gal.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 120, hose con. 2½-in. Ludlow; valves, 125 r. h. opening Ludlow & Kennedy; meters, 600 National; av. daily cons. 230,000 gal. 50%; serv. con. 650; ord. pres. 25 to 50 lb., fire pres. same.

Rates; meter, min. charge $7 year 20,000 gal., 30c. 1000 gal. max., 8c. min.

FRAMINGHAM, 12,948.
Supply from SOUTH FRAMINGHAM.

FRANKLIN, 5,641.
MUNICIPAL.
Supt. & Engr. P'g. Sta., F. A. Darling, Franklin
Asst. Engr., Arthur Nelson..... "
Wells, 20 2½-in. 30 ft. deep; ½ mi. from center distribution; reservoir, 1-600,000 gal.; no purification.
Boilers, 2 hor. tubular 80-hp. Allen; hand stoking; pumps. 3-1,500,000 gal. L-D-G., Deane & Blake 1-1,000,000 gal. Knowles; pumping direct & to standpipe (1889) steel.
Pipe, 25 mi. 4 to 12-in. c. i. & cement lined; hyd. 138, hose con. 2½-in. Holyoke & Chapman; valves, 123 r. h. opening Pratt & Cady; meters, 926 National; av. daily cons. 500,000 gal.; serv. con. 936; ord. pres. 50 to 97 lb., fire pres. same.

GARDNER, 14,699.
MUNICIPAL.
Comr., C. O. Burt.....Gardner
" Geo. M. Dyer..... "
" A. O. Sylvester..... "
Supt., E. L. Stone..... "
Engr. P'g. Sta., W. H. Dunn..... "
Crystal Lake; one mi. from center distrition; no purification.
Boilers, 2 return tubular 150 & 125-hp. Dillon; hand stoking; pumps, 2-3,000,000 gal. L-D-G. & Deane; pumping direct & to reservoir, 6,000,000 gal.
Pipe, 30 mi. 4 to 12-in. c. i.; hyd. 244, hose con. 2½-in. Rensselaer & Holyoke; valves, 225 r. & l. h. thd. various; meters, 150 various; av. daily cons. 774,000 gal.; serv. con. 1939; ord. pres. 50 to 140 lb., fire pres. same.

GLOUCESTER, 4,398.
MUNICIPAL. Owned by the city.
Supt., John W. Moran.....Gloucester
Impounding reservoir on Dikes & Haskell Brooks, and Wallace reservoir.

GRAFTON, 5,705.
GRAFTON WATER COMPANY. Office, Grafton & 206 Broadway, New York, N. Y.
Pres., James C. Foley.....New York, N. Y.
Treas., C. P. McLaughlin. " " " "
Supt., P. S. Smith..... " " " "
Well, large open near Quinsigamond River.

GRANVILLE, 781.
GRANVILLE WATER COMPANY. Office, 14 Beacon St., Boston, Mass.
Treas., Elbert Wheeler.....Boston

GREAT BARRINGTON, 5,526.
OXFORD WATER COMPANY.
Supt., O. C. Bidwell.....Gt. Barrington
Impounding reservoir on Green River.

GREENFIELD, 10,427.
MUNICIPAL. Fire District No. 1. of Greenfield. Office, 28 Grinnell St.
Chmn. Comrs., C. P. Dyer.....Greenfield
Comr., Thos. L. Lawler..... "
" Wm. F. Aiken..... "
Clerk & Supt., Geo. F. Merrill... "
Well, 40 ft. in diam. 31 ft. deep & impounding reservoirs on Glen Brook & Green Rivers, 2; 5 mi. from center business section; slow sand filters, filtering area 0.5 acres.
Pumps, 1-3,000,000 gal. hor. duplex Platt 1913 d. con. to elec. motor, 200-hp. 550 v. 3 ph. 60 cys. G. E. 1913; elec. energy from Greenfield Elec. Light & Power Co.; pumping to reservoirs, 2-26,500,000 gal.
Pipe, 49 mi. 1 to 30-in. c. & w. i.; hyd. 307, hose con. 2½-in. Rensselaer & R. D. W.; valves, 442 r. h. opening Rensselaer; meters, 234 Thomson, Pittsburgh & National; av. daily cons. 1,188,000 gal. 34.55%; serv. con. 2400; ord. pres. 55 to 135 lb., fire pres.same.
Rates; flat, $9 six mo.; meter, 15c. 100 cu. ft. max., 4.5c. min.

GREENVILLE.
Supplied by CHERRY VALLEY & ROCHDALE WATER DISTRICT. See Cherry Valley.

HADFIELD, 986.
MUNICIPAL. Owned by the town.
Chmn. Comrs., M. J. Troult.....Hadfield
Treas., D. W. Wells..... "
Clerk, C. W. Wade..... "
Supt., E. W. Strong..... "
Impounding reservoir; gravity distribution from reservoir, pipe 22 mi. 4 to 8-in. c. i.; hyd. 106, hose con. 3-in. Norwood & Chapman; valves, 21 r. h. opening; serv. con. 425; ord. pres. 40 lb.
Rates; flat, $6 year, bath $3, closet $3.

HAVERHILL, 44,111.
MUNICIPAL.
Supt., Herbert C. Cromwell.....Haverhill
Cons. Engr., Lewis D. Thorpe.... "
Registrar, Albert L. Sawyer..... "
Impounding reservoir, 1-12,000,000 gal.; 1 to 3 mi. from center distribution.
Boilers, 6 return tubular 75-hp. to 150-hp. Cunningham; hand stoking; pumps, 5 L-D-G., Worth., Deane, Barr & Platt; pumping direct & to reservoirs, 2-11,000,000 gal.
Pipe, 105 mi. 4 to 24-in. c. i. & cement lined; hyd. 401; valves, 1238 r. h. thd. Chapman, Rensselaer & Pratt & Cady; meters, 1812 mostly Thomson; av. daily cons. 5,996,668 gal.; serv. con. 7324; ord. pres. 30 to 120 lb., fire pres. same.
Rates; meters, $4.50 year, bath $3, closet $4; meter, min. charge $10 year, 15c. 100 cu. ft. max., 7.5c. min.

HEBRONVILLE, 500.
Supplied by the TOWN of ATTLEBORO

HINGHAM, 4,965.
HINGHAM WATER COMPANY. Supplies Hull.

Pres., E. L. Ripley.....Hingham
Treas., M. S. Whiton..... "
Accord Pond & large well.

HOLBROOK, 2,816.
Supplied by the TOWN OF RANDOLPH. See Randolph.

HOLLISTON, 2,711.
HOLLISTON WATER COMPANY.
Pres., C. A. Fernold.....Boston
Treas., Louis G. T. Ace..... "
Sec., Gen. Mgr. & Pur. Agt.,
G. E. Tylee.....Holliston
Large well.

HOLYOKE, 57,730.
MUNICIPAL.
Supt., Patrick Gear.....Holyoke
Asst. Supt., A. H. O'Brien..... "
Registrar, Albert E. Pickup..... "
Des. Engr., Patrick J. Lucey..... "
Impounding reservoirs, 650,000,000 gal.; 3 mi. from center distribution; no purification.
Gravity distribution from reservoirs, 2-364,000,000 gal.
Pipe, 22 mi. 4 to 14-in. c. i.; hyd. 94, hose con. 2½-in. R. D. W.; valves, 200 r. h. opening Chapman; meters, 378 Thomson & National; av. daily cons. 169,100 gal.; serv. con. 655; ord. pres. 60 lb., fire pres. 90 lb.
Rates; meter, min. charge $10 year, 25c. 1000 gal.

HOPEDALE, 2,188.
Supplied by the MILFORD WATER COMPANY. See Milford.

HOPKINTON, 2,452.
MUNICIPAL. Owned by the town.
Comr., Geo. E. Dailey.....Hopkinton
" Oscar P. Pond..... "
Town Clerk, P. H. Dolan..... "
Supt., Geo. L. Hemenway..... "
Engr. P'g. Sta., A. Newton..... "
Artesian wells, 4 6-in. 60 to 120-ft. deep; at center distribution; no purification.
Boilers, 50-hp.; hand stoking; pumps, 2-172,800 gal. Deane; pumping to standpipe (1885) iron.
Pipe, 25 mi. 4 to 12 in. c. i.; hyd. 75, hose con. 2½-in.; valves, l. h. thd.; meters, 300; serv. con. 441; ord. pres. 40 to 72 lb., fire pres. same.

HUDSON, 6,743.
MUNICIPAL. Owned by the town.
Supt., H. M. Phipps.....Hudson
Pond & Fosgate Brook.

HULL, 2,103.
Supplied by the HINGHAM WATER COMPANY. See Hingham.

HUNTINGTON, 1,473.
MUNICIPAL. Owned by the Huntington Fire District.
Supt., Richard Ford.....Huntington
Cold Brook & wells, tubular near Westfield River.

HYANNIS, 1,800.
Supplied by the BARNSTABLE WATER COMPANY. See Barnstable.

HYANNISPORT, 300.
Supplied by the BARNSTABLE WATER COMPANY. See Barnstable.

IPSWICH, 5,777.
MUNICIPAL. Owned by the town.
Mgr., Geo. H. Schofield.....Ipswich
Impounding reservoirs on Dow's Brook.

KINGSTON, 2,445.
MUNICIPAL. Owned by the town.
Chmn. Comrs., F. A. Sampson...Kingston
Comr., W. W. Dewing..... "
Clerk, Fred Chandler..... "
Supt., A. P. Bryant..... "
Wells, 7 2½-in.; 1.5 mi. from center business section; no purification.
Pumps, 2-230,000 gal. vert. triplex 1900 belted to elec. motors, 2 20-hp. ea. 220 v. single ph.

LANCASTER, 2,444.
MUNICIPAL.
Chmn. Comrs., G. R. Temple....Lancaster
Treas., J. E. Daily..... "
Clerk, J. F. Brown..... "
Supt., A. Blood..... "
Buy water from town of Clinton; 6 mi. from center business section; no purification.
Gravity distribution; pipe, 19.25 mi. 2 to 8-in. c. i.; hyd. 52, hose con. 2½-in. Chapman & R. D. W.; valves, 72 r. & l. h. opening Chapman; meters, 370 various; av. daily cons. 116,000 gal.; serv. con. 483; ord. pres. 52 to 120 lb., fire pres. same.
Rates; flat, $1.50 quarter; meter, min. charge $1.50 quarter 600 cu. ft., 25c. 100 cu. ft. max., 15c. min.

Partly supplied by the town of Clinton. See Clinton.

LAWRENCE, 85,892.
MUNICIPAL.
Supt.,
Paul Hannagan.....Lawrence
Ch. Engr. P'g. Sta., John Hickey . "
Gen. Foreman, Edward Lee..... "
Clerk, Wm. H. Hart..... "
Merrimac River; 1½ mi. from center distribution; slow sand filters, 2-7,000,000 gal.: chemicals, noe.
Boilers, 2 tubular 200-hp. Wright & Stafford; hand stoking; pumps, 4-15,000,000 gal. Morris, Barr & Lawrence; pumping to reservoir, 40,000,000 gal. & standpipe (1896) steel.
Pipe, 95 mi. 4 to 30-in. c. i.; hyd. 855, hose con. 2½-in. various; valves, 1686 r. h. thd. various; meters, 7470 various; av. daily cons. 3,895,016 gal.; serv. con. 8025; ord. pres. 17 to 70 lb., fire pres. 43 to 134 lb.

Rates; meter, min. charge $5 year, 10c. 100 cu. ft.

LEE, 4,108.

BERKSHIRE WATER COMPANY.

Pres., J. P. Chaffee.....Lee
Treas., Supt. & Pur. Agt., M. K. Chaffee "

Basin Pond & Codding Brook; 3 mi. from center distribution; no purification.

Gravity distribution; pipe, c. i. & cement; hyd. 40, hose con. 2½-in.; meters, none; serv. con. 600; ord. pres. 60 to 75 lb.,

LEICESTER, 3,236.

MUNICIPAL. Leicester Center Water District.

Comr., H. O. Smith.....Leicester Center

LENOX, 3,060.

LENOX WATER COMPANY.

Pres., W. D. Curtis.....Lenox
V. Pres., J. E. Parsons....New York, N. Y.
Treas., O. P. Curtis.....Lenox
Sec., Edward McDonald..... "
Gen. Mgr., I. P. Newton..... "

Impounding reservoirs on Yoakum River.

LEOMINSTER, 17,050.

MUNICIPAL. Owned by the town. Supplies a part of Lunesburg.

Chmn. Comrs., W. H. Chase...Leominster
Comr., C. H. Howe..... "
Clerk, A. H. Hall..... "

Impounding reservoirs, 4-600,000,000 gal.; 2.5 mi. from center business section; gravity distribution from reservoirs, 2-404,000,000 gal.

Pipe, 59 mi. 4 to 20-in. c. i. & cement; hyd. 404, hose con. 2½-in.; valves, 611 l. h. opening; meters, 339; av. daily cons. 1,800-000 gal.; serv. con. 3234; ord. pres. 25 to 145 lb., fire pres. same.

Rates; flat, $4.50 year, bath $2.70, closet $3.60; meter, min. charge $5.40 year, 3158 cu. ft., 17.1c. 100 cu. ft. max., 1.35c. min.

LEXINGTON, 4,918.

MUNICIPAL.

Chmn. Comrs., Geo. E. Briggs...Lexington
Comr., Albert E. Lenney..... "
" Edward H. Mara..... "
Sec., Edward B. Worthen..... "
Supt., E. L. Locke..... "

Supplied by the Metropolitan Water District. See Boston.

Gravity distribution from standpipe (1912) 675,000 gal.; pipe, 33 mi. 4 to 12-in. c. i.; hyd. 185, hose con. 2½-in. mostly Ludlow; valves, 295 Rensselaer & Chapman; meters, 947 various; av. daily cons. 375,000 gal. 75%; serv. con. 1113; ord. pres. 60 to 90 lb., fire pres. same.

Rates; meter, min. charge $12 year, 5450 cu. ft., 22c. 100 cu. ft. max., 15c. min.

LINCOLN, 1,175.

MUNICIPAL. Owned by the town.

Supt., G. L. Chapin.....Lincoln

Sandy Pond.

LITTLETON, 1,339.

MUNICIPAL.

Comr., W. E. Conant.....Littleton
" C. F. Johnson..... "
" F. B. Priest..... "
Supt., J. H. Remick..... "
Cons. Emgr., L. D. Thorpe..... "
Wells, 9 2½-in. 25-ft. deep. "

Pumps, 1-230,000 gal. Deane; oil engine, 25-hp. Meitz & Weiss; elec. motors, 17 kw. 220 v. 3 ph. 60 cys.; elec. energy from municipal plant; pumping to standpipe (1911) iron.

Pipes, 7.3 mi. 4 to 12-in. c. i.; hyd. 47, hose con. 2½-in. R. D. W.; valves, l. h. thd.; meters, 170 National; av. daily cons. 50,000 gal.; serv. con. 170; ord. pres. 74 to 112 lb., fire pres. same.

Rates; meter, min. charge $6 6-mo. 12,000 gal.

LONGMEADOW, 1,084.

MUNICIPAL. Owned by the town.

Chmn. Comrs., John D. Kaps...Springfield

Cooley Brook.

LOWELL, 106,294.

MUNICIPAL. Office, City Hall.

Comr., James H. Carmichael.....Lowell
Sec., John W. Crawford..... "
Supt., Robert J. Thomas..... "
Cons. Engr., F. A. Barbour..... "
Chemist, Clinton L. Rice..... "

Wells, 500 2½-in. 40 ft. deep; 3 mi. from center business section; settling basins, 2; slow sand filters, 10,000,000 gal., filtering area, one acre; chemical, none.

Boilers, 10 hor. return tubular 100-hp. ea. 125 lb. Scannell 1891–4, one water-tube 100-hp. 150 lb. Edge Moor 1912; hand stoking; pumps, 1-8,000,000 gal. vert. tri. exp. c. & f. wh. Allis-C 1911, 1-8,000,000 gal. vert. tri. exp. c. & f. wh. Holly 1908, 1-10,000,000 gal. hor. comp d. act. Worth. 1891, 1-5,000,000 gal. hor. comp. d. act. Worth. 1876, 2-3,000,-000 gal. hor. comp.d. act. Worth. 1894, 2-3,000,000 gal. hor. comp d. act. Worth 1894, 2-3,000,000 gal. hor. comp. d. act. Deane 1893, 1-500,000 gal. hor. duplex Worth. 1881 driven by steam engines, 25-hp. hor. Ames 1900; elec. motor, 15 kw. 110 v. d. c. G. E. 1900; steam turbines, 2 35-hp. ea. Kerr; elec. generators, 25 kva. G. E.; pumping to reservoirs, 3-36,500,000 gal.

Pipe, 154 mi. 4 to 30-in. c. i.; hyd. 1363, hose con. 2½-in. Ludlow, Chapman & Boston valves, 1600 l. h. opening Rensselaer & Ludlow; meters, 11,093 Hersey, National, Thomson & Worth.; av. daily cons. 5,984,; 000 gal.; serv. con. 14,208; ord. pres. 28 to 75 lb., fire pres. same.

Rates; flat, $6 year, bath $3, closet $4; meter, min. charge $5 year 5000 cu. ft., 14c. 100 cu. ft., max., 10c. min.

LUDLOW, 4,948.

LUDLOW MANUFACTURING ASSOCIATES.

Supt., C. E. Quimby.....Ludlow

Supplied by the City of Springfield Water Dept.

Pipe, 12 mi. 6 to 12-in. c. i.; hyd. 109; valves, 139 right hand opening; meters, 700; av. daily cons. 160,000 gal. 84%; ord. pres. 45 to 65 lb., fire pres. 150 lb.

Rates; meter, min. charge $2 quarter 910 cu. ft., 22c. 100 cu. ft. max., 6c. min.

LUNESBURG, 1,393.

Partly supplied by the TOWN OF LEOMINSTER.

LYNN, 89,336.

MUNICIPAL. Supplies Saugus.

Comr., Thomas Campbell.....Lynn
Supt., D. A. Sutherland..... "
Registrar, W. O. Mudge..... "
Engr. P'g. Sta., C. A. Cowles..... "

Saugus River & impounding reservoirs, 20,000,000 gal.; one to 5 mi. from center distribution; no purification.

Boilers, 2 return tubular 200-hp. ea. Hodge & Mumford; hand stoking; pumps, 4-15,000,000 gal., 12,000,000 gal., 5,000,000 gal., & 1,500,000 gal. De Laval, Loretz & Leavitt; pumping direct and to reservoir; standpipe(1895) iron.

Pipe, 126 mi. 4 to over 30-in. c. i. & cement lined; hyd. 1150, hose con. 2½-in. various; valves, r. h. opening various; meters, 7800 various; av. daily cons. 6,366,000 gal.; serv. con. 16,000; ord. pres. 35 to 80 lb., fire pres. same.

MALDEN, 44,404.

MUNICIPAL.

Comr., E. O. Witman.....Malden
" Edmund J. Lonergan..... "
" Chas. G. Nichols..... "
Supt., John D. Devir..... "

Supplied by the Metropolitan Water District. See Boston.

Pipes, 88.5 mi. 4 to 16-in. c. i. & cement; hyd. 536; valves, 1568; meters, 7534 various; av. daily cons. 1,330,000 gal.

Rates; meter, min. charge $7 year 4375 cu. ft., 16c. 100 cu. ft. max., 10c. min.

MANCHESTER, 2,683.

MUNICIPAL.

Chmn. Comrs.,
Geo. E. Hildreth.....Manchester
Comr., James Moore..... "
" S. Stanley..... "
Supt., Geo. F. Evans..... "
Cons. Engr., Raymond C. Allen "

Ponds & wells, tubular 30 ft. deep; ¾ & 2 mi. from center distribution; no purification.

Pumps, 2-750,000 gal. Goulds, 2-1,000,000 gal. Goulds driven by gasoline engines, 2 50-hp. & 2 65-hp. Smith; pumping to standpipes, 2(1892, 1908) w. i. & concrete.

Pipe, 24 mi. 4 to 30-in. c. i.; hyd. 202, hose con. 2½-in. Ludlow; valves, l. h. thd. Ludlow; meters, 975 mostly National; av. daily cons. 346,000 gal.; serv. con. 975; ord. pres. 110 lb., fire pres. same.

Rates; meters, 20c. 100 cu. ft.

MANSFIELD, 5,183.

MUNICIPAL.

Chmn. Comrs., D. S. Spaulding..Mansfield
Supt. & Comr., J. F. Dearborn... "
Comr., G. E. Leonard..... "
Treas., Ira C. Gray..... "
Cons. Engr., Percy M. Blake...Newtonville
Engr. P'g. Sta., A. Buck.....Mansfield

Springs & well, 20-ft. in diam. 18-ft. deep; 1.5 mi. from center distribution; no purification.

Boilers, 2 hor. 60-hp. ea. 90 lb. Hodge 1911; hand stoking; pumps, 2 hor. comp. d. act. Blake 1886; pumping direct & to reservoir (1886) 235,000 gal.

Pipe, 25 mi. 2 to 10-in. c. i.; hyd. 137, hose con. 2½-in. Ludlow; meters, 700 various; av. daily cons. 600,000 gal. 60%; serv. con. 1095; ord. pres. 50 to 70 lb., fire pres. 60 to 100 lb.

Rates; flat $5 year, bath $4, closet $4; meter, 27c. 1000 gal. max., 10c. min.

MARBLEHEAD, 7,338.

MUNICIPAL. Owned by the town.

Supt., H. F. P. Wilkins.....Marblehead

Wells, near Forest River.

MARION, 1,460.

MUNICIPAL.

Chmn. Comrs., Geo. L. Delano.....Marion
Comr., Chas. H. Chadwick..... "
Clerk, A. C. Delano..... "
Supt. & Engr. P'g. Sta.,
T. A. Whyland..... "

Wells, 34 3-in.; 1.5 mi. from center distribution; settling basin, one; slow sand filters, 285,000 gal.

Pumps, 2-252,000 gal. vert. tri. Platt 1908 driven by oil engines, 2 35-hp. ea. Mietz & Weiss 1903; pumping to standpipe (1908) 284,000 gal. iron.

Pipe, 14.5 mi. 4 to 12-in. c. i.; hyd. 29, hose con. 2¼-in. Rensselaer; valves, r. & l. h. opening Chapman; meters, 160 National; av. daily cons. 125,500 gal.; serv. con. 373; ord. pres. 54 to 64 lb., fire pres. same.

Rates; meter, min. charge $16 year 64,000 gal., 35c. 1000 gal.

MARLBORO, 14,579.

MUNICIPAL. Marlboro City Water Works.

Supt. George A. Stacy.....Marlboro

Lake Williams & impounding reservoir on Millham Brook.

MATTAPOISETT, 1,233

MUNICIPAL.

Comr., Horace F. Field.....Mattapoisett
" Harry Griffin..... "
" Dennis Mahoney..... "
Town Clerk, Abner Harlow... "
Supt. & Engr. P'g. Sta.,
C. W. Ellis, Jr..... "
Cons. Engr., Henry Symonds
70 Kilby St., Boston, Mass.

Wells, 15 3-in. 18 to 25-ft. deep; 2.5 mi. from center distribution.

Pumps, 2-360,000 gal. vert. triplex Platt 1914 geared to oil engines, 2 25-hp. Meitz & Weiss 1914; pumping to elev. tank (1914) 330,000 gal., Hodge Boiler Co.

Pipe, 8 mi. 4 to 10-in c. i.; hyd. 65, hose con. 3-in. Rensselaer; valves, 76 r. h. opening R. D. W.; serv. con. 249; ord. pres. 65 to 78 lb., fire pres. same.

Rates; flat, $8 year, bath $3, closet $5.

MAYNARD, 6,390.

MUNICIPAL.

Chmn. Comrs., John Lawton.....Maynard
Comr., O. S. Fowler..... "
Clerk, Garvis Taylor..... "
Supt., Wm. Naylro..... "
Engr. P'g. Sta., J. E. Sheridan.... "

White Pond; 4 mi. from center business section.

Boilers, 2 hor. tubular 60-hp. 80 lb. Dillon; pumps, 1-1,000,000 gal. hor. comp. d. act. Blake 1890, 1-500,000 gal. hor. simple d. act. Blake 1890; pumping to reservoir, 1-1,500,000 gal.

Pipe, 12 mi. 4 to 12-in. c. & w. i.; hyd. 110, hose con. 2½-in. Chapman & Rensselaer; valves, r. h. opening Chapman & Rensselaer; meters, 1000 National; av. daily cons. 250,000 gal.; serv. con. 1000; ord. pres. 52 to 115 lb., fire pres. same.

Rates; flat, $6 year; meter, min. charge $6 year 1600 cu. ft., 37.5c. 100 cu. ft. max., 10c. min.

MEDFIELD, 3,466.

MEDFIELD WATER CO.

Treas., Granville C. Mitchell.....Medfield

Springs.

MEDFORD, 23,150.

MUNICIPAL.

Chmn. Comrs., Fred W. Dow.....Medford
Comr., Frank C. Brady..... "
" L. V. Brooks..... "
Registrar, Fred L. Cushing..... "
Supt., O. J. Whitney..... "

Supplied by the Metropolitan Water District. See Boston.

Pipe, 57 mi. 3 to 20-in. c. i. & cement lined; hyd. 635, hose con. 2½ & 4½-in. various; valves, 1000 r. h. opening various; meters, 5440 various av. daily cons. 1,255,000 gal.; serv. con. 565; ord. pres. 61 to 111 lb.

Rates; all meter, min. charge $1.50 quarter 382 cu. ft., 17c. 100 cu. ft. max., 6c. min.

MELROSE, 15,715.

MUNICIPAL.

Engr. & Supt., G. O. W. Servis.....Melrose
Comr., Jas. McTiernan..... "

Supplied by the Metropoiitan Water District. See Boston.

Pipe, 51.57 mi.; hyd. 348; meters, 4041; av. daily cons. 1,136,600 gal.;serv. con. 3784.

MIDDLEBORO, 8,314.

MUNICIPAL. Owned by the Middleboro Fire District.

Supt., Alding Howes.....Middleboro

Well, open, near Manasket River.

MIDDLETON, 1,129.

Supplied by the TOWN OF DANVERS. See Danvers.

MILBURY, 4,746.

MILBURY WATER COMPANY.

Pres., Lucien Taylor.....Milbury
Sec. & Treas., Herbert A Ryan.... "

Well, large open.

MILFORD, 13,055.

MILFORD WATER COMPANY. Supplies Hopedale.

Supt., J. W. Kay.....Milford

Wells, large open near Charles River.

MILLERS FALLS, 900.

MUNICIPAL.

Comr., P. E. Amidon.....Millers Falls
Comr. & Sec., M. W. Carroll... "
" W. J. Parsons..... "

Buy water from Turners Falls Fire District. See Turners Falls.

Gravity distribution from reservoirs, 1,500,000 gal.; pipe, 7.5 mi. 2 to 10-in. c. i.; hyd. 54, hose con. 2½-in. Ludlow & Rensselaer; valves, 32 l. h. opening Ludlow; meters, 243 National, Thomson & Neptune; av. daily cons. 48,000 gal. 75%; serv. con. 247; ord. pres. 60 to 127 lb.

Rates; meter, min. charge $8 year 10,000 gal., 45c. 1000 gal., max., 25c. min.

MILLIS, 1,339.

MUNICIPAL.

Comr. & Supt., Chas. La Croix.....Millis
" G. G. Hoff..... "
" M. Clancy..... "

Spring; one mi. from center distribution.

Boilers, 2 hor. 5-hp. Cunningham; hand stoking; pumps, 2-504,000 gal. Deane; pumping to reservoir, 250,000 gal. & standpipe (1891) iron.

Pipe, 10-mi. 4 to 12-in.; hyd. 60, hose con. 2½-in. Chapman; valves, l. h. thd. Chapman; meters, 60 National; av. daily cons. 50,000 gal.; serv. con. 200; ord. pres. 35 to 75 lb.

MILTON, 7,924.

MUNICIPAL.

Chmn. Comrs., Jesse Baxter .....Millis
Comr., Thos. B. Gordon..... "
" T. T. Whitney, Jr..... "
Supt., D. A. Hefferman..... "

Supplied by the Metropolitan Water District. See Boston.

Pipe, 49 mi. 4 to 16-in. c. i.; hyd. 380, hose con. 2½ & 4-in. Ludlow; valves, 608 r. h. opening Ludlow; meters, 1916 mostly National; av. daily cons. 333,670 gal. 82%; serv. con. 1760; ord. pres. 50 to 133 lb., fire pres. same.

Rates; meter, min. charge $10 year 5000 cu. ft., 20c. 100 cu. ft.

MITTENEAGUE, 2,000.

Supply from the CITY OF SPRINGFIELD WATER DEPARTMENT. See Agawam.

MONSON, 4,758.

MUNICIPAL. Owned by the town.

Chmn. Comrs. & Supt.,
A. B. Norcross.....Monson
Comr., R. Fay..... "
Clerk, F. Q. Ball..... "
Town Clerk, C. L. Peck..... "

Well, 80-ft. in diam. 20-ft. deep; 2 mi. from center business section; reservoir, 5,000,000 gal.

Gravity distribution from reservoir, 660,000 gal.; pipe, 24 mi. 6 to 12-in. c. i.; hyd. 97 Ludlow; valves, l. h. opening; meters, 350 various; serv. con. 470; ord. pres. 20 to 150 lb.

Rates; meter, min. charge $6 year 20,000 gal., 30c. 1000 gal. max., 8c. min.

MONTAGUE, *450.

Owned by E. L. BARTLETT.

Supt. & Mgr., E. L. Bartlett.....Montague

Springs; one mi. from center distribution; no purification.

Pumps, 3-18,000 gal. Rife 1911; pumping direct & to elev. tank (1911) 45,000 gal.

Pipe, 2.5 mi. 2 & 4-in. galv. i.

Rates; flat, $10 year, bath $4, closet $4.

NANTUCKET, 2,962.

WANNACOMET WATER COMPANY. Office, 21 Main St.

Pres., Henry Brown.....Nantucket
Sec., Treas. & Gen. Mgr.,
Wm. F. Good..... "
Engr. P'g. Sta., Geo. W. Francis.. "

Springs flowing into Wannacomet Pond & wells, 18 2-in. 20-ft. deep; one & 2 mi. from center business section; no purification.

Boilers, hor. tubular 50-hp. 75 lb. Hodge 1897; hand stoking; pumps, 1-720,000 gal. hor. simple d. act. Worth. 1880, 1-360,000 gal. hor. duplex d. act. Blake 1879, 1-648,000 gal. vert. triplex Deming 1902 geared to gas oline engine, 28-hp. F. M. 1902, 1-432,000 gal. vert. triplex Deming 1900 geared to oil engines, 15 hp. F. M. 1900, 1-374,000 gal. vert. triplex Deming 1913 geared to oil engine, 20-hp. 1913; pumping to standpipe (1908) 425,000 gal. steel, Hodge Boiler Works.

Pipe, 12 mi. 4 to 12-in. c. i., one mi. 3 & 4-in. wood; hyd. 83, hose con. 2½-in. & 4-in. mostly Ludlow; valves, 193 r. & l. h. opening Chapman, Ludlow & Coffin; meters, 3; av. daily cons. 230,000 gal.; serv. con. 1438; ord. pres. 50 lb., fire pres. 75 lb.

Rates; flat, $8 year, bath $4, closet $4; meter, 25c. 1000 gal. max.

NATICK, 9,866.

MUNICIPAL.

Supt., Geo. W. Travers.....Natick

Well, large open near Lake Cochituate.

NEEDHAM, 5,026.

MUNICIPAL.

Supt., Geo. A. Adams.....Needham

Wells, large open & tubular.

NEWBURYPORT, 14,949.

MUNICIPAL. Newburyport City Waterworks.

Supt., James H. Higgins .....Newburyport

Springs, large well & Artichoke River.

NEW BEDFORD, 97,652.

MUNICIPAL.

Supt., R. C. P. Coggeshall....New Bedford
Registrar, Clifford Baylies... " "
Engr. P'g. Sta., A. S. Negus.. " "

Ponds; 11 mi. from center distribution; no purification.

Boilers, 2 internally fired 160-hp. Morris; hand stoking; pumps, 2-10,000,000 gal. ea. Leavitt, 1-5,000,000 gal. Quintard, 1-3,000,000 gal. duplex Worth., 1-9,000,000 gal. Worth.; pumping to reservoir, 67,000,000 gal.

Pipe, 158.3 mi. 4 to over 30-in. c. i.; hyd. 1640, hose con. 2½-in. Chapman; valves, 2060 r. h. opening Chapman & Darling; meters, 13,000; av. daily cons. 7,800,000 gal.; serv. con. 15,000; ord. pres. 25 to 95 lb.

Rates; meter, 15c. 1000 gal.

NEWTON, 39,806.

MUNICIPAL.

Comr., J. D. Whitney.....Newton
Engr. P'g. Sta., F. E. Croker..... "

Wells, 250 2½-in. 53 ft. deep & one open; 3 mi. from center business section; no purification.

Boilers, 2 locomotive 250-hp. ea. 125 lb. Kendall 1892; hand stoking; pumps, 1-5,000,000gal. hor. comp. d. act. Worth. 1876, 1-6,000,000 gal. vert. comp. c. & f. wh. Barr 1906, 1-1,500,000 gal. hor. centrifugal Buffalo 1913 d. con. to elec. motor, 20-hp. 220 v. 3 ph. 60 cys. G. E. 1913; elec. energy from Edison Elec. Illg. Co.; pumping direct & to reservoir, 1-4,500,000 gal.

Pipe, 1.5 mi. 4 to 20-in. c. i; hyd. 1050, hose con. 2½-in. Bourbon, Chapman & R. D. W.; valves, 950 r. h. opening Boston & Chapman; meters, 8100 various; av. daily cons. 2,960,000 gal. 51%; serv. con. 8900; ord. pres. 10 to 123 lb., fire pres. same.

Rates; flat, $5 year; meter, min. charge $10 year 4400 cu. ft., 22.5c. 100 cu. ft. max., 8c. min.

NORTH ADAMS, 22,019.

MUNICIPAL.

Supt., P. J. Conlon.....No. Adams

Mountain streams & artesian wells, 2 8 in. 600 ft. deep; 2½ & 7 mi. from center distribution; no purification.

Boilers, one hor. tubular 110-hp.; hand stoking; pumps, 1-1,200,000 gal. Knowles; pumping to reservoir, 2-6,226,000 gal.

Hyd. 328, hose con. 2½-in. various; valves, r. h., thd. Ludlow, Kennedy & Smith; meters, 82 various; av. daily cons. 3,000,000 gal.; serv. con. 3002; ord. pres. 140 lb., fire pres. 160 lb.

Rates; flat, $6 year, bath $3, closet $3; meter, 15c. 1000 gal. max., 10c. min.

NORTHAMPTON, 19,431.
MUNICIPAL.
Pres. Comrs., Chas. W. Kinney, Northampton
Treas., Chas. N. Clark..... "
Supt., L. C. Wright..... "
Consltg. Engr., E. E. Davis.. "
Mountain streams; 9 mi. from center distribution; no purification.
Gravity distribution; pipe, 75.5 mi. 4 to over 30-in.; hyd. 450, hose con. 2½-in.; valves, r. h. thd. Chapman & Ludlow; meters, 135 mostly National; serv. con. 3500; ord. pres. 50 to 120 lb., fire pres. same.
Rates; flat, $6 year, bath $2, closet $2; meters, 10c. 1000 gal. max., 6c. min.

NORTH ANDOVER, 5,529.
MUNICIPAL.
Chmn. Board of Public Works, William Sommerville.....No. Andover
Clerk, Isaac Osgood..... " "
Mgr., John Bannon..... " "
Supt., Chas. E. Johnson..... " "
Lake Cochituate; 1½-mi. from center distribution; no purification.
Boilers, one internally fired 100-hp. Mumford, one hor. tubular 150-hp. Dillon; hand stoking; pumps, 1-1,500,000 gal. c. & f. wh. L-D-G.; pumping direct and to reservoir, 1-500,000 gal.
Pipe, 32 mi. 4 to 12-in. c. i; hyd. 223, hose con. 2½ & 4-in. various; valves, 260 l.h. thd. Chapman; meters, 900 National, Neptune & Hersey; av. daily cons. 250,000 gal.; serv. con. 1000; ord. pres. 20 to 150 lb., fire pres. same.
Rates; meter, 20c. 100 cu. ft. max., 8c. min.

NORTH ATTLEBORO, 9,562.
MUNICIPAL.
Supt. & Cons. Engr., Wm. Plattner.....No. Attleboro
Wells, 2-28 ft. in diam. 30 ft. deep; one mi. from center distribution.
Boilers, 2 water-tube 300-hp. Heine & Sterling; hand stoking; pumps, 1-2,500,000 gal. Epping-Carpenter, 1-1,500,000 gal. Deane, 1-1,000,000 gal. Davidson; pumping to standpipe (1884) iron.
Pipe 34.7 mi. 4 to 16-in. c. i.; hyd. 270, hose con. 2½-in. Rensselaer, Ludlow & R. D. W.; valves, 137 l. h. thd. Peet, Eddy & Rensselaer; meters, 1457 various; av. daily cons. 480,000 gal.; serv. con. 1450; ord. pres. 35 to 110 lb., fire pres. same.
Rates; meter, min. charge $6 year 40,000 gal., 30c. 1000 gal. max., 25c. min.

NORTH BRIGHTON.
Supplied by the City of Taunton. See Taunton.

NORTH BROOKFIELD, 3,075.
MUNICIPAL.
Chmn. Comrs., C. A. Batcheller No. Brookfield
Comr., P. J. Lawlor..... " "
Comr., Wm. F. Fullam.....No. Brookfield
Supt., Henry Hatch..... " "
Doane & North Ponds.
Pumps driven by steam & elec. motors; pipe, 9.2 mi. 2 to 16-in.; hyd. 107; meters, 4; av. daily cons. 195,000 gal.; serv. con. 472.

NORTH CHELMSFORD, 1,500.
NORTH CHELMSFORD FIRE DISTRICT.
Chmn. Comrs., David Billson, No. Chelmsford
Comr., C. Frank Butterfield. " "
" James F. Leahey.... " "
Supt., C. S. Foote..... " "
Wells, 20 2½-in. 28 ft. deep; ½ mi. from center business section.

Pumps, 2-288,000 gal. vert. triplex Rumsey 1906 geared to elec. motors, 2 25-hp. ea. 550 v. 3 ph. 60 cys. G. E. 1906, one hor. single vacuum Rumsey 1906 belted to elec. motor, 3 hp. 60 cys. G. E.; elec. energy from Lowell Elec. Light Corpn.; pumping to standpipe (1906) 350,000 gal. iron, Hodge Boiler Works.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 51, hose con. 2-in. Fairbanks; valves, 39 r. & l. h. opening Fairbanks; meters, 263 National; av. daily cons. 50,000 gal.; serv. con. 268; ord. pres. 40 to 80 lb., fire pres. same.
Rates; meter, min. charge $8 year 85,000 gal.

NORTHEASTON, 3,000.
MUNICIPAL
Supt., Horace Jones.....Northeaston

NORTHFIELD, 1,642.
NORTHFIELD WATER COMPANY.
Pres., C. H. Webster.....Northfield
Sec., Treas. & Supt., B. F. Field. "
Minot Brook; 1.5 mi. from center distribution; no purification.
Pumps, 1-72,000 gal. Deane d. con to elec. motor, 5-hp. G. E.; gravity distribution from reservoir, 300,000 gal.
Pipe, 2 mi. 4-in. c. i.; hyd. 8, hose con. 2½-in. Boston; valves, 6 r. h. thd.; meters, none; serv. con. 100; ord pres. 90 lb., fire pres. same.
Rates; flat, $8 year, bath $2, closet $2.

NORTON, 2,544.
NORTON WATER CO.
Pres. & Des. Engr., H. A. Symonds, 70 Kilby St.....Boston, Mass.
Supt. & Engr. P'g. Sta., Chas. McLenna, Norton
Treas., Ralph Abbott..... "
Wells near Rumford River, 20 2½-in. 28 ft. deep; 2 mi. from center distribution.
Pumps, 2-360,000 gal. Platt d. con to oil engines, 2 25-hp. Mietz & Weiss; pumping to elev. tank (1911) 200,000 gal. steel.
Pipe, 13 mi. 4 to 12-in.; hyd. 60, hose con. 2½-in. Pratt & Cady; valves, 30 l. h. opening Pratt & Cady; meters, 4 Neptune; av. daily cons. 100,000 gal.; serv. con. 200; ord. pres. 70 to 110 lb., fire pres. same.

Rates; flat, $10 year, bath $5, closet $5; meters, 25c. 100 cu. ft.

NORWOOD, 8,014.

MUNICIPAL. Owned by the town.
Supt., Jos. E. Conley.....Norwood
Buckmaster Pond.

OAK BLUFFS, 1,084.

COTTAGE CITY WATER CO. Office, 14 Beacon St., Boston, Mass.
Supt., A. S. Watson.....Oak Bluffs
Treas. & Des. Engr., Wm. Wheeler, Boston, Mass.

Springs; 3 mi. from center distribution; no purification.

Boilers, 2 hor. Robb-Mumford & Hodge; hand stoking; pumps, 1-1,250,000 gal. Deane, 1-1,500,000 gal. Worth.; pumping to standpipe, steel..

Pipe, 45 mi. 4 to 12-in. c. i.; hyd. 87, hose con. 2½-in. Coffin, Florence & Norwood; valves, 147 l. h. opening Coffin; meters, 20 Hersey & Neptune; av. daily cons. 194,000 gal.; serv. con. 1206; ord. pres. 65 lb.; fire pres. same.

Rates; flat, $7 year, bath & closet $8; meters, min. charge $16 year.

ONSET, 1,200.

ONSET WATER COMPANY.
Pres., Jos. K. Nye.....New Bedford
V. Pres., H. H. Hathaway.....Fairhaven
Treas., Gen. Mgr. & Pur. Agt.,
C. Eldridge.....Onset

Jonathan Lake; 1.5 mi. from center business section; no purification.

Boilers, 2 water-tube 30-hp. ea. 140 lb. Roberts 1901 & 1907; pumps, 1-400,000 gal. hor. simple d. act. Snow 1894, 1-500,000 gal. hor. simple d.. act. Deane 1911; pumping to standpipe (1894) 94,000 gal.

Hyd. 49, Ludlow; valves, 160 l. h. opening Ludlow & Chapman; meters, 4 Hersey & Worth.; av. daily cons. 200,000 gal.; serv. con. 822; ord. pres. 440 to 55 lb., fire pres. same.

Rates; flat, $8 year, bath $5, closet $4; meter, 20c. 1000 gal.

ORANGE, 5,282.

MUNICIPAL.
Chmn. Comrs. & Supt., Arthur N. Hunt, Orange
Comr., Chas. E. Lane..... "
" Hollis H. Goss..... "
Clerk, Howard M. Ford..... "

Springs; 2 mi. from center business section.

Boilers, hor. tubular 60-hp. 80 lb. Hall 1892; hand stoking; pumps, 1-750,000 gal. vert. comp. d. act. Deane 1892, 1,750,000 gal. vert. duplex Rodney Hunt 1892 belted to water-turbines, 60-hp. Rodney Hunt; pumping direct & to reservoir, 3,000,000 gal.

Pipe, 16 mi. 6 to 16-in. c. i.; hyd. 138, hose con. 2½-in. Holyoke, Rensselaer, Chapman & Eddy; valves, 750 r. h. opening Ludlow, Eddy & Chapman; meters, 878; av. daily cons. 132,600 gal. 60%; serv. con. 878; ord. pres. 60 to 140 lb., fire pres. same.

Rates; meter, min. charge $1.75 quarter 700 cu. ft., 20c. 1000 gal.

OXFORD, 3,361.

OXFORD WATER COMPANY.
Pres., Gen. Mgr. & Pur. Agt.,
A. M. Chaffee.....Oxford
Treas., H. V. Chaffee..... "
Engr. P'g. Sta., H. E. Partridge.... "

Wells, 15 2-in. 25 to 28 ft. deep; one ml. from center distribution; reservoir ,150,000 gal.

Pumps, 2-204,000 gal. triplex Rumsey 1911 geared to oil engines, 2 40-hp. ea. Mietz & Weiss 1910 & 1912; pumping direct & to standpipe (1906) 150,000 gal.

Pipe, 12 mi. 6 to 10-in. Universal; hyd. 60, hose con. 2½-in. Pratt & Cady; valves, r. h. opening Pratt & Cady; meters, 167 National; av. daily cons. 100,000 gal.; ord. pres. 65 to 130 lb., fire pres. same.

Rates; flat, $5 6 mo.; meter, min. charge $5 6 mo. 12,500 gal., 40c. 1000 gal. max., 10c. min.

PALMER, 2,610.

PALMER WATER CO.
Supt., S. B. Gamewell.....Palmer

Well, tubular & impounding reservoir.

PEABODY, 15,724.

MUNICIPAL.
Comr., John Boyle.....Peabody
" Edward A. Blaney..... "
" Michael Bresnahan..... "
" James Goggen ..... "
" C. J. Houghton..... "
Ch. Engr., Chas. L. Pettey..... "
Supt., A. N. Jacobs..... "
Engr. P'g. Sta., F. Emerson..... "
Sec. & Treas., Wm. F. Goggen.... "

Pond & wells, 37 2½-in. 25 to 50 ft. deep; one & 5 mi. from center distribution; no purification.

Boilers, 2 water-tube 150-hp. ea. Sterling; hand stoking; pumps, 2-1,500,000 gal. ea. Worth. & Allis-C. 2-5,000,000 ea. for wells; elec. motors, 31.5 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to reservoirs, 2-3,585,000 gal. & standpipe (1882) iron.

Pipe, 45.75 mi. 3 to 12-in. c. i.; hyd. 420, hose con. 2½-in. Ludlow; valves, 370 r. h. opening Ludlow; meters, 1300 various; av. daily cons. 2,700,000 gal.; serv. con. 2928; ord. pres. 70 to 85 lb. fire pres. same.

Rates; flat, $4 year, bath $3, closet $4; meter, 20c. 1000 gal.

PEMBROKE, 1,366.

MUNICIPAL. Supplies Abington & Rockland.
Gen. Supt. & Engr. P'g. Sta.,
W. S. Perham,.....Bryantville

Big Sandy Lake; 9 mi. from center center business section; no purification.

Boilers, 2 hor. tubular 95-hp. ea. 140 lb. Kendall 1898; hand stoking; pumps, 1-2,000,000 gal. hor. comp. d. act. Worth. 1886, 2-3,000,000 gal. vert. tri. exp. c. & f. wh. Barr 1895, one hor. duplex Deane d. con. to steam engine, one hor. duplex Worth. 1886 d. con. to steam engine one,-10x24 vert. single Barr 1895; water-turbines 2-hp. Pelton; elec. generators 110 v. 12 amp. G. E.; pumping to standpipes, 2-1,670,000 gal.

Pipe, 50 mi.; 4 to 16-in. c. i.; hyd. 350; valves, 250 r. & l. h. opening; av. daily cons. 710,000 gal.; serv. con. 3000; ord. pres. 50 to 60 lb., fire pres. 100 lb.

Rates; meter, min. charge $5 year, 2222 cu. ft., 22.5c. 100 cu. ft. max., 11.25c. min.

PEPPERELL, 2,953.

MUNICIPAL.

Sec., Arthur P. Wright.....Pepperell
Supt., Perley Blake..... "
Engr. P'g. Sta., H. L. Nutting.... "

Wells, 34 2½-in. 28 ft. deep; 3.5 mi. from center business section; mech. filters, 700,-000 gal. Rumsey.

Pumps, 2-360,000 gal. hor. tri. exp. d. act. Rumsey 1909; air compressor, Rumsey 1909; belted to oil engines, 2 25-hp. ea. De La Vergne 1909; pumping direct & to standpipe (1909) 500,000 gal.

Pipe, 21 mi. 6 to 12-in. c. i.; hyd. 144, hose con. 2½-in. Coffin & Chapman; valves, 142 l. h. thd. Pratt & Cady; meters. 486 Thomson. Neptune & National; av, daily cons. 135,000 gal. 70%; serv. con. 550; ord. pres. 24 to 110 lb., fire pres. same.

Rates; meter, min. charge $8 year 20,000 gal., 40c. 1000 gal., max., 6c. min.

PITTSFIELD, 32,121.

MUNICIPAL. Pittsfield City Waterworks.

Chmn. Comrs., Jay C. Barnes....Pittsfield
Comr., Louis B. Cummings..... "
" A. B. Farnham..... "
Supt., J. Wise..... "

Brooks, Ashley & Onota Lakes.

PLAINVILLE, 1,385.

MUNICIPAL.

Chmn. Comrs., Chas. M. Moore..Plainville
Comr., Harry B. Thompson..... "
Sec. & Supt., Wm. H. Nash..... "
Cons. Engr., W. S. Johnson.....Boston

Wells, 7 2½-in. 48 ft. deep; ½ mi. from center business section.

Pumps, 1-60,000 gal. Deane 1908, 1-150,-000 gal. Deane 1914; elec. motor, 20-hp. Westg. 1913; pumping to standpipe (1908) 350,000 gal. steel.

Pipe, 6.75 mi. 4 to 10-in. c. i.; hyd. 51, hose con. 2½-in. Rensselaer; valves, 60 l. h. opening Rensselaer; meters, 199 National; av. daily cons. 55,000 gal. 43.5%; serv. con. 201; ord. pres. 74 lb.

Rates; meter, min. charge $10 year 40,000 gal.

PLYMOUTH, 12,141.

MUNICIPAL.

Chmn. Comrs., J. W. Churchill..Plymouth
Sec., John H. Demon..... "
Comr., R. C. Harlow..... "
" C. T. Holmes..... "
" H. P. Bailey..... "
Supt., A. E. Blackmer..... "
Cons. Engr., Clemens Herschell, 2 Wall St., N. Y.
Cons. Engr., Walter H. Sears, 60 Federal St., Boston, Mass.

Impounding reservoirs, 855,000,000 gal.; 3½ mi. from center distribution; no purification.

Boilers, 2 hor. tubular 55-hp. ea. Kendall; hand stoking; pumps, 1-2,000,000 gal. Barr, 1-1,500,000 gal. Worth.; pumping to reservoir, 3,000,000 gal.

Pipe, 43 mi. 4 to 18-in. cement lined; hyd. 220, hose con. 2½-in. Chapman, Coffin & Pratt-Cady; valves, 618 r. h. opening Chapman; meters, 200 mostly Neptune; av. daily cons. 1,300,000 gal.; serv. con. 2500; ord. pres. 20 to 55 lb., fire pres. same.

Rates; flat, according to valuation, bath $2, closet $2; meter, 20c. 1000 gal. max., 10c. min.

QUINCY, 320,342.

MUNICIPAL.

Comr., Moses L. Brown.....Quincy
Supt., J. G. Whitman..... "

Supplied by Metropolitan Water District. See Boston.

Reservoirs, 5,000,000 gal.; standpipe, 2 (1883, 1907) w. i.; elev. tank, 400,000 gal. steel.

Pipe, 122 mi. 4 to 30-in. c. i.; hyd. 1030, hose con. 2½ & 4-in. Ludlow, Coffin & Chapman; valves, 1696, r. h. thd. Chapman & Ludlow; meters, 7900 Hersey & National; av. daily cons. 2,664,000 gal.; serv. con. 8864; ord. pres. 35 to 90 lb., fire pres. same.

Rates; meters, min. charge $14 year, 30c. 1000 gal.

RANDOLPH, 4,301.

MUNICIPAL. Supplies Holbrook.

Supt. & Comr.,
Richard F. Forrest, ...Randolph
Comr., W. F. Barrett..... "
" J. B. McNeil..... "
Consltg. Engr., M. M. Tidd..... "
Engr. P'g. Sta., W. H. Ward..... "

Great Pond; 3 mi. from center distribution.

Boilers, 2 tubular Roberts; hand stoking; pumps, 1-250,000 gal. Epping-Carpenter, 1-150,000 gal. Blake; pumping to standpipe (1887)

Pipe, 26 mi. 4 to 14-in. c. i.; hyd. 192, hose con. 2½-in. Chapman & Darling; valves, l. h. thd. Chapman; meters, 400 National; av. daily cons. 475,000 gal.; serv. con. 1175; ord. pres. 55 to 90 lb., fire pres. 52 to 110 lb.

Rates; flat, $6 year, bath & closet $10; meters, min. charge $8 year, 30c. 1000 gal.

READING, 5,818.
MUNICIPAL.
Comr., H. R. Johnson.....Reading
" E. N. Hunt..... "
" H. A. Bancroft..... "
Supt., L. M. Bancroft..... "
Engr. P'g. Sta., F. S. Strout..... "
Infiltration gallery near Ipswich River; 3.75 mi. from center distribution; settling basin, 19 x 33 x 9 ft.; mechanical filters, 1,500,000 gal.; chemicals, sulphate of alumina & lime.
Boilers, 2 hor. tubular 60-hp. Hodge; hand stoking; pumps, 2-900,000 gal. Blake, one triplex powet Platt to elec. motor, 550 v. 2 ph. 60 cys. Westg.; elec. energy from municipal plant; pumping to standpipe (1890)
Pipe, 32. 5 mi. 4 to 12-in. c. i.; hyd. 193, hose con. 2½ & 4½-in. Chapman; valves, 292 r. h. thd. Chapman; meters, 1500 various; av. daily cons. 244,000 gal.; serv. con. 1611; ord. pres. 45 to 90 lb.
Rates; meter, 23c. 100 cu. ft. max., 12c. min.

REVERE, 18,019.
MUNICIPAL. Revere City Waterworks
Chmn. Comrs., Alfred S. Hall.....Revere
Comr., Chas. H. Brown..... "
Sec., Wm. H. Johnson..... "
City Clerk, Albert J. Brown..... "
Supplied by the Metropolitan Water District. See Boston.
Pipe, 55 mi. 1 to 16-in. c. i., wr. i., galv. i. & cement lined; hyd. 276. 276, hose con. 2½-in. Chapman, Ludlow, Rensselaer & Walker; valves, 510 r. h. opening Kennedy, Rensselaer, Chapman & Ludlow; meters, 2704 Worth., National, Union, Neptune & Pittsburgh; av. daily cons. 1,385,100 gal.; serv. con. 4242; ord. pres. 20 to 72 lb., fire pres. same.
Rates; flat, $12 year; meter, min. charge $12 year 60,000 gal., 20c. 1000 gal. max., 15c. min.

ROCHDALE, 500.
Supplied by CHERRY VALLEY & ROCHDALE WATER DISTRICT. See Cherryvalley.

ROCKLAND, 6,928.
MUNICIPAL.
Comr., John H. Burke.....Rockland
" C. E. Vinal..... "
" & Sec., F. W. Baker..... "
Supt., John B. Warsaw..... "
Both supply and pumping station are located in Pembroke. See Pembroke.

ROCKPORT, 4,211.
MUNICIPAL. Owned by the town.
Supt., Chas. A. Weatherbee.....Rockport
Pace Pond.

RUSSELL, 935.
MUNICIPAL.
Comr., S. L. Bronson.....Russell
" Geo. D. Pierce..... "
Supt. & Comr., E. D. Parks..... "
Cons. Engr., J. L. Tighe..... "
Mountain stream; one mi. from center distribution; no purification.
Gravity distribution from reservoir, 1,750,000 gal.
Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 2-in.; valves, 20 r. h. thd. Chapman; meters, 5 various; av. daily cons. 60,000 gal.; serv. con. 200; ord. pres. 110 to 135 lb., fire pres. same.
Rates; flat, $8 year, bath $3, closet $4; meters, 22c 100 cu. ft. max., 5c. min.

RUTLAND, 1,743.
MUNICIPAL.
Chmn. Comrs., Geo. H. Miles.... Rutland
Supt., L. M. Hauff..... "
Muschopauge Lake; 1.5 mi. from center distribution; no purification.
Boilers, one hor. tubular 65-hp. Cunningham; hand stoking; pumps, 1-648,000 gal. steam Knowles, 1-360,000 gal. Deane con. to elec. motor, 37 kw. 220 v. s. ph. 60 cys. Wagner; elec. energy from Connecticut Elec. Pwr. Co.; pumping to elev. tank, 213,000 gal. steel.
Pipe, 3.75 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in.; meters, 69 Neptune; av. daily cons. 960,000 gal.; serv. con. 115; ord. pres. 60 to 100 lb., fire pres. same.

SALEM, 43,697.
MUNICIPAL. SALEM CITY WATERWORK.
Supplies Beverly.
Chmn. Comrs., C. J. Kelly.....Salem
City Engr., Geo. F. Ashcon..... "
Clerk, Henry E. Reynolds..... "
Wenham Lake, 1,000,000,000 gal. & Longham Basin, 55,000,000 gal.
Boilers, 4 hor. tubular 125-hp. ea. 45 lb. 1873 & 1882; pumps, 2-5,000,000 gal. ea. hor. comp. duplex Worth. 1867 & 1873, 2-2,000,000 gal. hor. comp. duplex Worth.; pumping to reservoir, 20,000,000 gal.
Pipe, 55 mi. 4 to 30-in. c. i. & cement lined; hyd. 527, hose con. 2½ & 4½-in.; av. daily cons. 3,000,000 gal.; serv. con 6,786; ord. pres. 18 to 58 lb.

SAUGUS, 8,047.
MUNICIPAL. Owned by the town.
City Engr., Levi G. Hawjes.....Saugus
Supply from Lynne City Waterworks. See Lynn.

SCITUATE, 2,482.
SCITUATE WATER CO.
Supt., Samuel Agnew.....Scituate
Well, tubular.

SHARON, 2,310.
MUNICIPAL. Owned by the town.
Chmn. Comrs., G. W. Pettee.....Sharon
Comr., R. O. Brown..... "
" C. F. Quinn..... "
Sec. & Supt., E. E. Farnham..... "
Springs & wells, 16 2½-in. 20 to 45 lb. deep; one mi. from center business section; no purification.

Boilers, 2 hor. tubular 52-hp. 80 lb. Kendall 1897 & 1904; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Deane 1885, 1-350,000 gal. hor. duplex d. act. Knowles 1897; elec. motors, 40-hp. 220 v. 3 ph. 60 cys. Westg. 1914; pumping to standpipe (1885) 188,000 gal.

Pipe, 19 mi. 2 to 12-in. c. i., w. i. & cement lined; hyd. 127, hose con. 2½-in. various; valves, 133 r. & l. h. opening Ludlow & Darling; meters, 6; av. daily cons. 156,000 gal.; serv. con. 550; ord. pres. 35 to 90 lb., fire pres. same.

Rates; flat, $6 year, bath $5, closet $5; meter, min. charge $20 year 50,000 gal., 40c. 1000 gal. max., 3c. min.

SHELBOURNE FALLS, 1,650.

SHELBOURNE FALLS FIRE DISTRICT.

Chmn. Comrs., H. Newell..Shelbourne Falls
Comr., H. E. Fish..... " "
" W. H. Ball..... " "
Supt., A. J. Amstein..... " "

Impounding & distributing reservoirs, 3-6,780,000 gal.; gravity distribution; ordinary pres. 96 to 143 lb.

SHIRLEY, 1,850.

MUNICIPAL. Shirley Village Water District.

Chmn. Comrs., F. D. Weeks.....Shirley
Sec., C. H. Weare, Jr..... "
Treas., T. L. Hazen..... "
Supt., Wm. H. Brown..... "
Cons. Engr., Frank L. Fuller,
12 Pearl St., Boston, Mass.

Wells, 5-18.5 ft. in diam. 15 ft. deep; ½ mi. from center distribution.

Pumps, 1-230,000 gal. Platt; pumping direct & to reservoir, 200,000 gal.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 61, hose con. 2½-in. Ludlow; valves, 61 l. h. thd. Ludlow; meters, 251 National; av. daily cons. 64,000 gal; serv. con. 251; ord. pres. 65 to 100 lb., fire pres. same.

Rates; meter, min. charge $8 year 20,000 gal., 30c. 1000 gal.

SOMERVILLE, 77,236.

MUNICIPAL.

Comr. & Supt., Frank E. Merrill,
Somerville

Supplied by Metropolitan Water District. See Boston.

Pipe, 99 mi. 4 to 30-in. c. i.; hyd. 1125, hose con. 2½-in. Rensselaer, Chapman & R. D. W.; valves, 1625 l. h. thd. Rensselaer, Ludlow & Chapman; meters, 8500 various; av. daily cons. 5,958,000 gal., serv. con. 13,000; ord. pres. 35 to 100 lb.; fire pres. same.

Rates; flat, according to valuation, meter, 12c. 100 cu. ft.

SOUTH ASHBURNHAM, 700.

SOUTH ASHBURNHAM WATERWORKS.

Supt., L. W. Jones.....So. Ashburnham

SOUTH BRAINTREE, 2,500.

MUNICIPAL.

Chmn. Comrs., Jas. C. Stevens,
So. Braintree

SOUTH DEERFIELD, 1,000.

MUNICIPAL. South Deerfield Water District.

Chmn. Comrs.,
Robt. W. Corey,.....So. Deerfield
Comr., C. F. Billings..... " "
Comr., C. F. Billings..... " "
" W. C. May..... " "
Sec., W. C. Rose..... " "

Impounding reservoir on Roaring Brook; 3 mi. from center business section.

Gravity distribution; pipe, 13 mi. 4 to 12-in. c. i.; hyd. 73, hose con. 2½-in. Norwood; valves, 9 l. h. opening Ludlow; meters, 3 Thomson; serv. con. 231; ord. pres. 80 lb.

Rates; flat, $4 6 mo., bath $1.50, closet $1.50; meter, 20c. 100 cu. ft. max., 7c. min.

SOUTH FRAMINGHAM, 7,000.

MUNICIPAL. Supplies Framingham & Saxonville.

Chmn. Comrs., Henry S. Dennison,
So. Framingham
Comr., Arthur C. Winch.. " "
" John J. Prindeville " "
Supt., J. A. Hancock..... " "
Engr. P'g. Sta.,
J. M. Badger, ...So. Framingham

Infiltration galleries near Farm Pond & the Sudbury Aqueduct of the Metropolitan Water District; ¾ mi. from center business section.

Boilers, 2 hor. return tubular 100-hp. ea. 125 lb. Robb 1910 & 1912; hand stoking; pumps, 2-1,500,000 gal. ea. hor. comp. d. act. Deane 1885, 1-3,000,000 gal. hor. comp. c. & f. wh. Snow 1903, 1-3,000,000 gal. hor. centrifugal Lawrence 1912 d. con. to steam engines; pumping to standpipe 750,000 gal.

Pipe, 44.9 mi. ¾ to 16-in. c. & wr. i.; hyd. 264, hose con. 2½-in. Coffin, Chapman & Rensselaer; valves, 591 r. h. opening Kennedy; meters, 3357 mostly National; av. daily cons. 805,700 gal. 7%; serv. con. 2284; ord. pres. 80 to 110 lb., fire pres. same.

Rates; all meter, min. charge $12 year 4800 cu. ft., 25c. 100 cu. ft. max., 9c. min.

SOUTH HADLEY, 4,894.

MUNICIPAL. South Hadley Fire District No. 2.

Chmn. Comrs., H. C. Brockway..So. Hadley
Comr., C. F. Wilkinson..... " "
Clerk, A. R. Wilson..... " "

Well, 30-ft. in diam. 16-ft. deep; 2 mi. from center business section.

SOUTHBRIDGE, 12,592.

SOUTHBRIDGE WATER SUPPLY CO.
Office, 95 Main St.

Treas., Geo. H. Abbott.....Southbridge

Impounding reservoirs on small brook.

Pumps, 2-360,000 gal. vert. triplex Deane 1912 d. con. to oil engines, two 35-hp. ea. De La Vergne 1912; pumping to standpipe (1912) steel, Tippett & Wood.

Pipe, 8 mi. 6 to 12-in. c. i.; hyd. 42, hose con. 2-in.; valves, 16 r. h. opening Florence; meters, 125 Thomson; av. daily cons. 40,000 gal.; ord. pres. 60 to 90 lb., fire pres. 40 to 100 lb.

Rates; meter, min. charge $6 6 mo., 2500 cu. ft.

SPENCER, 6,740.

MUNICIPAL.

Comr., Dexter Bullard.....Spencer
" Albery C. Beaulas..... "

Supt. & Comr., E. J. Starr.....Spencer
Cons. Engr., Nathan E. Craig..... "

Springs & pond; 3 mi. from center distribution.

Pumps, 1-240,000 gal. triplex Rumsey con. to gasoline engine, 28-hp. Ohio; pumping to reservoir, 141,000,000 gal. & standpipe (1899) iron.

Pipe, 13.85 mi. 4 to 12-in. & cement lined; hyd. 102, hose con. 2½-in. Florence; valves, 92 l. h. thd. Chapman; meters, 850 National & Union; serv. con. 925; ord. pres. 12 to 120 lb., fire pres. same.

Rates; meters, min. charge $1 500 cu. ft., 20c. 100 cu. ft., 5c. min.

SPRINGFIELD, 88,926.

MUNICIPAL. Supplied Agawam, East Longmeadow & part of Wilbraham.

Chmn. Comrs., E. A. Blodgett Springfield
Comr., H. C. Puffer..... "
Mayor & Comr., Frank E. Stacy "
Sec., Alfred R. Hathaway..... "
Ch. Engr., E. E. Lochridge..... "
Cons. Engr., Allen Hazen
30. E. 42nd St.....New York, N. Y.
Supt., Alfred E. Martin.....Springfield.
Chemist, H. F. Falmond..... "

Impounding reservoir on Westfield Little River, 1-2,500,000,000 gal.; 22 mi. from center business section; settling basin, 1-38,-700,000 gal.; slow sand filters, 6-5,000,000 gal. filtering area, 3 acres; gravity distribution from reservoir, 17,000,000 gal.

Pipe, 212.7 mi. 1 to 54-in. c. i., w. i. & steel; hyd. 1878, hose con. 2½-in. Chapman & Rensselaer; valves, 5095 r. h. opening Chapman; meters, 13,539 National, Hersey & Thomson; av. daily cons. 10,812,000 gal. 69.5%; serv. con. 14,126; ord. pres. 80 to 147 lb., fire pres. same.

Rattes; all meter, min. charge $2 quarter, 22c. 100 cu. ft. max., 5c. min.

STONEHAM, 7,090.

MUNICIPAL.

Town Cerk, Geo. N. Green.....Stoneham

Supplied by the Metropolitan Water District. See Boston.

Pipe, 25.39 mi.; hyd. 149; meters, 1327; v. daily cons. 414,000 gal.; serv. con. 1544.

STOUGHTON, 6,316.

MUNICIPAL.

Supt., G. E. Randll.....Stoughton

Muddy Pond Brook.

STURBRIDGE, 1,957.

STURBRIDGE AQUEDUCT ASSOCIATION.

Pres., J. H. Clinton.....Sturbridge
Sec., Treas. & Gen. Mgr.,
C. F. Chamberin..... "

Wells, four 4 to 10 ft. in diam. 8 to 12 ft. dep; ¾ mi. from center business section; no purification.

Gravity distribution; pipe, 0.8 mi. 2-in. wood & galv. i.

Rates; flat, $8 year.

SUNDERLAND, 1,047.

SUNDERLAND WATER COMPANY.

Pres., W. L. Hubbard.....Sunderland
Sec., A. C. Warner..... "
Treas., M. H. Williams..... "
Gen. Mgr. & Pur. Agt.,
F. O. Williams..... "

Springs;

Gravity distribution; pipe, 2.5 mi. 2 to 6-in. c. & galv. i.; hyd. 6, hose con. 2½-in.; valves, 8 r. h. opening; meters, none; serv. con. 100; ord. pres. 30 to 40 lb., fire pres. same.

Rates; flat, $5 6 mo., bath $1, closet $1.50.

TISBURY, 1,196.

MUNICIPAL. Owned by the town.

Chmn. Comrs., Herbert C. Hancock.Tisbury
Sec., John H. Krowell..... "
Treas. & Supt.,
John E. Holland.....Vineyard Haven
Cons. Engr., Wm. Wheeler
14 Beacon St., Boston
Engr. P'g. Sta., W. A. Pritt. Vinevard Haven

Boilers, one hor. 100-hp. 125 lb. Hodge 1906, one tubular 100-hp. 125 lb. Wood 193; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Worth. 1890, 1-1,000,000 gal. hor. comp. d. act. Deane 1884; pumping to standpipe (1884) 316,000 gal.

Pipe, 3.5 mi. 4 to 14-in. c. i.; hyd. 45; meters, 7 National & Thomson; av. daily cons. 110,000 gal.; serv. con. 450; ord. pres. 50 to 58 lb., fire pres. by direct pumping.

Rates; flat, $20 year max. for one family; meter, 50c. 1000 gal. mx., 45c. min.

UXBRIDGE, 4,671.

MUNICIPAL. Owned by the town.

Chmn. Comrs., James Daley.....Uxbridge
Comr., S. S. Stott..... "
" Eugene Hollihan..... "
Supt., W. E. Rawson..... "
Cons. Engr., Frank L. Fuller..... "

Impounding reservoirs, 4-1,000,000 gal. & wells, 16 2½-in. 42 ft. deep; 1.5 mi. from center business section.

Pumps, 2,450,000 gal. triplex driven by elec. motors, two 35-hp. ea. 550 v. 3 ph. 60 cys. G. E. 1914; elec. energy from Worcester Suburban Elec Co.; gravity distribution from reservoirs, above.

Pipe, 12 mi. 6 to 12-in. c. i.; hyd. 140, hose con. 2½-in. Eddy, Chapman & Walker; valves, r. h. opening Chapman & Fairbanks; meters, 380 various; av. daily cons. 300,000 gal.; serv. con. 451; ord. pres. 60 to 128 lb., fire pres.same.

Rates; meter, min. charge $10 year, .00225 cu. ft.

WAKEFIELD, 11,404.

MUNICIPAL. Owned by the town.
Chmn. Comrs., Chas. H. Dean ..Wakefield
Comr., Thos. G. O'Connell..... "
Sec., James H. Kimball..... "
Supt., Wm. H. Butler..... "

Crystal Lake; ¾ mi. from center business section; chemicals, chlorine.

Boilers, 2 return tubular 125-hp. ea. 80 lb. Hodge 1907; hand stoking; pumps, 2-1,000,000 gal. d. act. Knowles 1883; pumping direct & to standpipe (1883) 565,000 gal.

Pipe, 55 mi. 4 to 20-in. c. i. & cement lined; hyd. 330 Ludlow, Coffin & Rensselaer; valves, r. h. opening Ludlow, Chapman & Rensselaer; meters, 2400 National; av. daily cons. 700,000 gal.; serv. con. 2400; ord. pres. 45 to 87 lb., fire pres. same.

Rates; meter, min. charge $5 6 mo. 1666 cu. ft., 30c. 100 cu. ft. max., 12c. min.

WALTHAM, 27,834.

MUNICIPAL.
Mayor, Thos. F. Kearne.....Waltham
Supt., Daniel G. Higgins..... "

Springs & wells; 2 mi. from center distribution.

Boilers, 4 hor. tubular 300-hp. ea. Hodge & Kendall; hand stoking; pumps, 2-500,000 gal. ea., 1-2,000,000 gal. Barr, Worth. & Platt; pumping to reservoirs, 2-8,000,000 gal.

Pipe, 59 mi., 4 to 30-in. c. i.; hyd. 500 mostly Chapman; meters, 1500; av. daily cons. 2,727,000 gal.; serv. con. 4100; ord. pres. 40 to 80 lb., fire pres. same.

Rates; flat, $5 year, bath $2, closet $3; meter, 20c. 100 cu. ft. max., 11c. min.

WARE, 8,774.

MUNICIPAL.
Chmn., Comrs., Geo. B. Storrs.....Ware
Comr., H. P. Cummings..... "
" James A. Byrne..... "
Supt., T. C. Gleason..... "
Registrar, John E. Gleason..... "
Engr. P'g. Sta., C. Fitzgerald..... "

Wells, one 22 x 26 ft. & 36 2½-in. 34 ft. deep.

Boilers, 2 hor. tubular 75 & 100-hp. Allen; hand stoking; pumps, 2-1,500,000 gal. Deane & Warren; pumping to reservoir, 2-1,500,000 gal.

Pipe, 12.87 mi. 4 to 12-in. c. i.; hyd. 100, hose con. 2½-in. Chapman valves, 134 l. h. thd. Chapman; meters, 918 various; av. daily cons. 455,000 gal.; serv. con. 897; ord. pres. 40 to 100 lb., fire pres. same.

Rates; meter, min. charge $4.50 year 3000 cu. ft., $1.50 100 cu. ft. max., 67.5c. min.

WAREHAM, 4,102.

MUNICIPAL. Wareham Fire District.
Supt., John Seever .....Wareham
Cons. Engr., E. M. Blake. Hyde Park, Mass.

Wells, 12 2½-in. 30 to 42 ft. deep; 2 mi. from center business section.

Pumps, 2-360,000 gal. vert. triplex Platt 1903 d. con. to oil engines, two 25-hp. ea. Meitz & Weiss 1907; pumping to standpipe (1907) 235,000 gal. iron.

Pipe, 5.7 mi. 4 to 10-in. c. i.; hyd. 36, hose con. 2½-in. R. E. W.; valves, 25 l. h. opening Holly & Jones; meters, 131 National; serv. con. 298.

Rates; meter, min. charge $15 year 6000 gal., 25c. 1000 gal.

WARREN, 4,188.

Supply from WEST WARREN.

WATERTOWN, 12,875.

MUNICIPAL.
Sec. Comrs., Edward S. Hughes. Watertown

Supplied by Metropolitan Water District. See Boston.

Pipe, 34.81 mi.; hyd. 353; meters, 2435; av. daily cons. 868,500 gal.; serv. con. 2417.

WAYLAND, 2,206.

MUNICIPAL.
Town Clerk, Daniel Brackett.....Wayland

Impounding reservoir on Snake Brook.

WEBSTER, 11,509.

MUNICIPAL. Owned by the town.
Supt., F. Schofield.....Webster

Wells, large open & tubular near Lake Chaububagungangug.

WELLESLEY, *5,400.

MUNICIPAL.
Comr., Frank L. Fuller.....Wellesley
" Francis Hersey, Jr..... "
" Chas. E. Fuller..... "
Supt., W. H. Vaughn..... "
Treas., Fred O. Johnson..... "

Wells, covered & tubular.

Boilers, no data; pumps, 1-1,000,000 gal. Blake, 1-1,440,000 gal. Blake; pumping to reservoir, 1,969,000 gal.

Pipe, 42 mi. 1½ to 14-in. c. i. & cement lined; hyd. 372; valves, 325; meters, 1410; av. daily cons. 389,000 gal.; serv. con. 1410.

Rates; all meter, min. charge $6 year 15,000 gal., 25c. 1000 gal.

WEST BROOKFIELD, 1,327.

MUNICIPAL. Owned by the town.
Comr., Wm. A. Edson....West Brookfield
" Jas. G. Farley..... " "
Sec., Wm. R. Braill..... " "
Town Clerk,
Dwight Fairbanks..... " "
Cons. Engr., Frank L. Fuller
12 Pearl St., Boston

Wells, 10 2½-in. 30-ft. deep; ¾ mi. from center business section.

Pumps, 1-360,000 gal. vert. duplex Rumsey 1913 geared to elec. motors, 25-hp. 220 v. 3 ph. 60 cys. Westg. 1913; pumping to reservoirs, 250,000 gal.

Pipe, 6 mi. 4 to 10-in. c. i.; hyd. 41, hose con. 2½-in. Chapman; valves, 55 l. h. opening Chapman; meters, 160 Union; av. daily cons. 20,000 gal.; serv. con. 160; ord. pres. 80 to 92 lb., fire pres. same.

Rates; meter, min. charge $6 year 1000 cu. ft.

WESTBORO, 5,446.

MUNICIPAL.

Comr., Ira N. Beaman.....Westboro
" Alfrdd A. Goodell..... "
" Wm. E. Chamberlin..... "
Supt., J. E. Lawton..... "

Impounding reservoir & spring; 2 mi. from center distribution.

Gravity distribution; hyd. 120, hose con. 2½-in. Rennselaer & Chapman; valves, l. h. thd.; meters, 600 various; serv. con. 1000; ord. pres. 50 lb.

Rates; meter, 30c. 1000 gal. max., 3c. min.

WESTFIELD, 16,044.

MUNICIPAL.

Chmn. Comrs., J. S. Davine.. Westfield
Comr., G. H. Byers..... "
" S. W. Hildreth..... "
Clerk, G. W. Searle..... "
Supt., H. W. Sanderson..... "
Des. Engr., J. G. Hyde..... "

Brooks & impounding reservoirs, 184,000,000 gal.; 4.5 mi. from center distribution.

Gravity distribution from reservoirs, 2-5,765,000 gal.; pipe, 42.18 mi. 4 to 30-in. c. i.; hyd. 259, hose con. 2½-in. mostly R. D. W.; valves, 344 r. h. thd.; meters, 68 mostly National; av. daily cons. 2,000,000 gal.; serv. con. 2269; ord. pres. 80 to 124 lb.

WESTFORD, 2,851.

WESTFORD WATER CO.

Pres., G. T. Day.....Westford
Sec. & Treas., Chas. F. Prescott.. "
Gen. Mgr., S. H. Fletcher..... "
Supt. & Ch. Engr. P'g. Sta.,
A. Sutherland..... "
Cons. Engr., Edmund M. Blake,
Hyde Park, Boston, Mass.
Chemist, State Board of Health....Boston

Wells, 10 2½-in. 35 ft. deep; one mi. from center business section; no purification.

Pumps, 1-500,000 gal. vert. triplex Platt 1997 d. con. to producer gas engine, 50-hp. Olds 1907 & belted to elec. motor, 50-hp. 550 v. 3 ph. 60 cys. G. E. 1907; pumping direct & to standpipes, 2 (1907) 484,000 gal.

Pipe, 9.9 mi. 2 to 8-in. c. & w. i.; hyd. 50, hose con. 2½-in. R. D. W. & Ludlow; valves, 58 l. h. opening Ludlow; av. daily cons. 104,000 gal.; serv. con. 284; ord. pres. 80 to 90 lb., fire pres. same.

WESTHAMPTON, 423.

WESTHAMPTON WATER COMPANY.

Director, C. N. Loud.....Westhampton
Treas., N. A. Kingsley..... "
Supt., H. M. Clapp..... "

Mountain stream; ¼ mi. from center distribution.

Gravity distribution from reservoir, 7000 gal.

Pipe, ¼ mi. 4 to 12-in. c. i.; hyd. 1,. hose con. 2½-in. av. daily cons. 1000 gal.; serv. con. 22; ord. pres. 100 lb., fire pres. same.

WESTON, 2,106.

WESTON WATER COMPANY.

Pres., Percy Warren.....Weston
Treas., Horace S. Sears..... "

Wells, one open & 24 2½-in. 28 ft. deep.

Boilers, 2 hor. return tubular 350-hp. Kendall; hand stoking; pumps, 4-1,296,000 gal. Goulds & Davidson; elec. motor, 225-kw. 220 v. 3 ph. 60 cys. Wagner; elec. energy from Edison Elec. Ill. Co. of Boston; pumping to reservoir, 400,000 gal. & standpipe (1910) concrete.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Chapman; valves, 40 r. h. thd. Chapman; meters, 250 National & Hersey; av. daily cons. 150,000 gal.; serv. con. 295; ord. pres. 40 to 100 lb., fire pres. same.

Rates; meter, min. charge $18 year 35,000 gal., 35c. 1000 gal. max., 30c. min.

WEST SPRINGFIELD, 9,224.

MUNICIPAL. Owned by the town. Office, 28 Elm St.

Supt., Thos. B. Martin....West Springfield

Well, large open & impounding reservoir on Darby Brook, Bear Hole Brook; filters.

WEST STOCKBRIDGE, 1,271.

EAST MOUNTAIN WATER COMPANY.

Pres., Treas. & Supt.,
James S. Moore.....Stockbridge
Clerk. Charles W. Kniffin..... "

Springs; 1 mi. from center distribution; no purification.

Gravity distribution from reservoir, 11,000 gal.

Hyd. none; meters, 24 Hersey & Buffalo; av. daily cons. 3000 gal.; serv. con. 517; ord. pres. 110 lb., fire pres. same.

Rates; flat, $5 6 mo., bath $1, closet $1.

WEYMOUTH, 12,695.

MUNICIPAL.

Chmn. Comrs., Frank H. Torrey.Weymouth
Comr., Robert F. Hoffman..... "
" John S. Stetson..... "
" Edward W. Hunt..... "
Sec., Geo. E. Bicknell..... "
Supt. & Des. Engr., F. O. Stevens "
Engr. P'g. Sta., Geo. W. Sargent. "

Weymouth Great Pond; 4.5 mi. from center business section.

Boilers, 2 hor. tubular 100-hp. ea. 125 lb. Cunningham 1895; hand stoking; pumps, 2-1,500,000 gal. ea. hor. comp. duplex d. act. Blake 1885 & 1890; gravity distribution & pumping to standpipe (1885) 150,000 gal. Blake & Deane 1890; gravity distribution & pumping to standpipe (1885) 750,000 gal.

Pipe, 74.75 mi. 2 to 14-in. c. & w. i.; hyd. 43, hose con. 2½ & 4-in. Chapman & Rensselaer; valves, 583 r. h. opening various; meters, 569 various; av. daily cons. 1,000,

000 gal.; serv. con. 3768; ord. pres. 18 to 105 lb., fire pres. 60 to 105 lb.

Rates; flat, $6 year, bath $5, closet $5; meter, 23c. 100 cu. ft. max., 9c. min.

WHATELY, 846.

Owned by IRVING ALLEN.

Supt., Irving Allen ..... Whately

Springs; 2 mi. from center distribution.

Gravity distribution from reservoir, 50,000 gal.; av. daily cons. 50,000 gal.; serv. con. 30.

Rates; flat, $10 year.

WHITMAN, 7,292.

MUNICIPAL.

Comr., Edward Gurney..... Whitman
Supt., F. R. McCallum..... "

Supplied by the Municipal Waterworks of Brockton. See Boston.

WILBRAHAM, 2,332.

Supplied by the CITY OF SPRINGFIELD WATER DEPARTMENT. Springfield rates. Distribution system owned by Springfield.

WILKINSONVILLE, *350.

SUTTON WATER COMPANY.

Gen. Mgr., W. A. Bashaw... Wilkinsonville
Pur. Agt., J. P. Dudley..... "

Well, 20 ft. in diam. 20 ft. deep; one mi. from center business section; no purification; gravity distribution.

Rates; meter, min. charge $1 mo. 1000 gal., 50c. 1000 gal.

WILLIAMSBURG, 2,132.

MUNICIPAL. Owned by the town.

Pres. Comrs., A. S. Hills..... Williamsburg
Sec., G. A. Thesher..... "
Treas., A. C. Bradford..... "

Impounding reservoir fed by brooks & springs, 10,000,000 gal.; 2 mi. from center business section; gravity distribution.

Pipe, 8 mi. 4 to 8-in. c. i.; valves, 20; serv. con. 275; ord. pres. 70 to 120 lb.

Rates; flat, $6 year, bath $2, closet $3; meter, min. charge $10 year.

WILLIAMSTOWN, 3,708.

WILLIAMSTOWN WATER CO.

Treas., W. B. Clark..... Williamstown
Supt., P. L. Hogan..... "
Cons. Engr., F. H. Shaw.... Lancaster, Pa.

Springs & impounding reservoirs, 3-10,376,000 gal.

Gravity distributors from reservoirs.

Pipe, 21 mi. 4 to 12-in.; hyd. 75, hose con. 2½-in. R. D. W.; valves, 50 r. & l. h. thd. various; meters, 200 Neptune; av. daily cons. 750,000 gal.; serv. con. 750; ord. pres. 40 to 140 lb., fire pres. same.

WINCHENDON, 5,676.

MUNICIPAL. Owned by the town.

Registrar, Arthur S. Evans.... Winchendon
Supt., W. S. Clark..... "

Well, large open.

WINCHESTER, 9,309.

MUNICIPAL.

Chmn. Comrs., Harold K. Barrows, Winchester
Comr., Nathan H. Taylor..... "
" Arthur E. Whitney..... "
Supt., Wm. T. Dotten..... "
Registrar, Fred. L. Waldmyer... "

Springs; 2 mi. from center distribution; reservoir, 197.2 acres; no purification.

Pumps, 2 Goulds & Deming driven by gasolene engines, 10 & 20-hp. De La Vergne & Oldsmobile; one centrifugal driven by elec. motor; elc. energy from Edison Elec. Illg. Co. of Boston; gravity distribution & pumping to standpipe, 2 (1898, 1912) iron & cement.

Pipe, 32.5 mi. 4 to 12-in. c. i. & cement; hyd. 350, hose con. 2½-in. Chapman & Rensselaer; meters, 1950 Thomson, National & Neptune; serv. con. 2100; ord. pres. 40 to 55 lb., fire pres. same.

Rates; meter, 2c. 100 gal.

WINTHROP, 10,132.

MUNICIPAL.

Comr., Wesley Tayler..... Winthrop
" Charles W. Howard..... "
" Wm. A. Carstensen..... "
Supt., Lewis R. Dunn..... "
Cons. Engr., Channing W. Howard "

Supplied by Metropolitan Water District. See Boston.

Gravity distribution from standpipe (1909) 1,000,000 gal. steel.

Pipe, 32 mi. 4 to 12-in. ci. & cement lined; hyd. 254, hose con. 2½-in. Ludlow; valves, 575 r. h. thd. Ludlow; meters, 2667 various; av. daily cons. 689,700 gal.; serv. con. 2667; ord. pres. 42 to 73 lb., fire pres. same.

Rates; meter, min. charge $11 year 55,000 gal., 19c 1000 gal.

WOBURN, 13,308.

MUNICIPAL. Woburn City Waterworks.

Supt., Robt. Spencer..... Woburn

Wells, open & tubular and infiltration galleries near Horn Pond.

WORCESTER, 140,986.

MUNICIPAL.

Comr. & Supt.,
Geo. W. Batchelder..... Worcester
City Engr., Fred. A. McClure... "

Impounding reservoirs, 3,362,828,000 gal., 5 to 8 mi. from center distribution; no purification.

Gravity distribution reservoir.

Pipe, 232.2 mi. 4 to over 30-in. c. i.; hyd. 2473, hose con. 2½ to 4½-in. mostly Chapman & R. D. W.; meters, 18,376 mostly Union & Hersey; av. daily cons. 11,793,000 gal.; ord. pres. 20 lb., fire pres. 85 to 145 lb.

WRENTHAM, 1,743.

MUNICIPAL. Owned by the town.

Chmn. Comrs., E. P. Bennett . . . Wrentham
Sec., Murray Winter . . . . . "
Treas., J. S. Jenckes . . . . . "
Supt. & Engr. P'g. Sta.,
G. E. Farrington . . . . . "
Cons. Engr., E. M. Blake,
Hyde Park, Boston

Wells, 20 2½-in. 18 to 40 ft. deep; one mi. from center distribution; pumps, 2-310,000 gal. vert. triplex d. con. to oil engines, Mietz & Weiss 1907 & 1908; pumping to standpipe (1907) 265,000 gal.

Pipe, 11.1 mi. 2 to 10-in. c. i.; hyd. 44, hose con. 2½-in. Ludlow; valves, 32 l. h. opening Ludlow; meters, 148 National; av. daily cons. 106,000 gal.; serv. con. 293; ord. pres. 80 to 100 lb.

Rates; flat, $10 year, bath $3, closet $3; meter, min. charge $10 year 40,000 gal.

MICHIGAN

ALBION, 5,833.
MUNICIPAL.
Supt., W. E. Baumgardner.....Albion
Wells, 3 6-in. 130 to 175 ft. deep.
Pumps, driven by elec. motors, 70 & 100-hp. De Laval 1907 & 1911; pumping to standpipe, 112,000 gal.
Pipe, 17 mi. 2 to 12-in.; hyd. 153; ord. pres. 56 lb.

ALGONAC, 1,204.
MUNICIPAL. Algonac Electric Light & Waterworks.
Supt. & Engr. P'g. Sta., S. J. Moran, Algonac.
St. Clair River; one mi. from center distribution.
Boilers, 2 150-hp. Central; pumps, 1-1,200,000 gal. Deane driven by steam engine, 25-hp. Deane; elec. motors, 275-kw. 2300 v. 2 & 3 ph. 60 cys. Ft. Wayne & Westg.; pumping to elev. tank, 50,000 gal. iron.
Pipe, 8 mi. 4 to 12-in.; hyd. 30; av. daily cons. 500,000 gal.; serv. con. 820; ord. pres. 25 to 30 lb., fire pres. 60 to 90 lb.

ALLEGAN, 3,419.
MUNICIPAL.
Pres., M. O. Grice.....Allegan
Pres. Pro Tem, T. D. Town..... "
Chmn. Comr., F. E. Stratton..... "
Town Clerk, John Peet..... "
Supt. Chas. Sterner..... "
Des. Engr. Hugh McDougal..... "
Wells, 7 tubular 5-in. 200 ft. deep.
Boilers, 2 return tubular 80-hp. ea. 90 lb. Erie 1901; hand stoking; pumps, 2 hor. simple d. act. Platt 1901, 1-2,000,000-gal. vert. triplex Platt 1901, 1-1,000,000 gal. hor. duplex Walker 1890; steam engines, 150-hp. Erie 1911; wtr. turbines, 2 150-hp. ea Leffel; pumping direct.
Pipe, 14 mi. 4 to 16-in. c. i.; hyd. 110, hose con. 2½-in. Eddy; valves, 83 l. h. opening Eddy; meters, 70 Worth. & Pittsburg; av. daily cons. 743,000 gal.; serv. con. 1140; ord. pres. 40 to 60 lb., fire pres. 100 to 120 lb.
Rates; flat, $4 year, bath $2, closet $2.; meter, min. charge $1 year, 8c. 1000 gal.

ALPENA, 12,706.
MUNICIPAL.
Mayor, W. H. Comstock.....Alpena
Sec. & Treas., Julius F. Hiser..... "
Supt. & Engr. P'g. Sta.,
Alwin C. Calkins..... "
Lake Michigan; one mi. from center distribution; chemical, hypochlorite of lime.
Boilers, 3 710-hp. McNall, Sterling & Record; hand stoking; pumps, 2-4,000,000 gal. Snow; pumping direct.
Pipe, 36.5 mi. c. i. & wood; hyd. 240, hose con. 2½-in. Holly, Roe-Stephens & Eddy; valves, r. & l. h. thd.; meters, 100 Neptune & Hersey; av. daily cons. 2,370,000 gal.; serv. con. 3338; ord. pres. 25 to 35 lb., fire pres. 75 to 95 lb.
Rates; meter, $11 year max., $4 min., 10c. 1000 cu. ft. max., 4c. min.

ANN ARBOR, 14,817.
MUNICIPAL.
Comr., Geo. Mann.....Ann Arbor
" Wirt Cornwell..... "
" John Lindenschmitt..... "
Mgr., Geo. S. Vandawarker..... "
Supt., Reginald Spokes..... "
Cons. Engr., Gardner S. Williams "
Chemist, R. W. Pryer..... "
Huron River & wells; one mi. from center distribution; settling basin, 500,000 gal.; mechanical filters, 3,000,000 gal.; chemical, hypochlorite of lime.
Boilers, 5 hor., 600-hp. Pratt & Brownell; hand stoking; pumps, 5-9,000,000 gal. Gordon, Knowles & Deane; pumping to stand-pipe (1912) steel.
Pipe, 39.5 mi. 4 to 12-in. c. i.; hyd. 265, hose con. 2½-in. Holyoke & Roe-Stephens; valves, l. h. thd.; meters, 325 various; av. daily cons. 4,000,000 gal.; serv. con. 4300; ord. pres 30 to 90 lb., fire pres. same.
Rates; flat, $3.50 year, bath $2.50, closet $3; meters, 20c. 1000 gal. max., 10c. min.

ARMADA, 748.
MUNICIPAL.
Comr., Ivy Hulet.....Armada
Supt., E. W. Sutton..... "
Wells, 3 tubular 6-in. 96 ft. deep.
Pumps, 2-596,000 gal. centrifugal 1903 driven by elec. motor, 2 1903; pumping to reservoir, 1-94,000 gal. & standpipe, 40,000 gal.
Hyd. 27; av. daily cons. 43,000 gal.; ord. pres. 43 lb., fire pres. 152 lb.

ATHENS, 631.
MUNICIPAL.
Vil. Pres., S. V. Woodruff.....Athens
Supt., E. M. Palmer..... "
Wells, 10 tubular 2 & 4-in. 30 ft. deep.
Pumps, 1-360,000 gal. triplex 1906; pumping to pressure tanks, 2-25,000 gal.
Hyd. 30; ord. pres. 70 lb.

BAD AXE, 1,559.
MUNICIPAL.
Pres., Geo. L. Whitney.....Bad Axe
Recorder, James L. Burgess..... " "
Treas., Wm. Morgan..... " "
Comr., Chas. Engle..... " "
" Chas. Monroe..... " "
Supt. & Engr. P'g. Sta.,
Wm. H. Niswonger..... " "
Wells, 3 tubular 6-in. 215 ft. deep; near center distribution; reservoir, 6,500,000 gal.
Boilers, 2 return tubular 125-hp. ea. Erie; hand stoking; pumps, 2-1,758,000 gal. L-D-G. & Deane; pumping direct to standpipe (1894) iron.
Pipe, 5 mi. 4 to 12-in. wood; hyd. 52,

hose con. 2½-in.; valves, 19 l. h. thd.; meters, 80 Buffalo; av. daily cons. 154,000 gal.; serv. con. 350; ord. pres. 35 to 50 lb., fire pres. 80 to 100 lb.

Rates: flat, $4 year, bath $3, closet $2; meter, 20c. 1000 gal., 10c. min.

BANGOR, 1,158.

MUNICIPAL.

Chmn. Comr., H. D. Harvey.....Bangor
Comr., M. F. Russell..... "
" Chas. Fields..... "
Town Clerk, Walter E. Wilcox..... "
Pur. Agt. A. L. Robbins..... "
Supt. & Engr. P'g. Sta., P. M. Gross "

Wells, 2 tubular 6-in. 60 ft. deep; near center distribution.

Boilers, 2 return tubular 80-hp. ea. 90 lb. 1903; hand stoking; pumps, 2-504,000 gal. hor. simple d. act. Worth. 1903; pumping to elev. tank (1903) 55,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 4 mi. 2 to 8-in. c & galv. i.; hyd. 35, hose con. 2½-in. Eddy; valves, 10 r. h. opening; meters, 7 Buffalo; av. daily cons. 100,000 gal.; serv. con. 275; ord. pres. 50 to 55 lb., fire pres. 50 to 100 lb.

Rates: flat, $3 six mo., bath, $1, closet, $2; meter, 15c. 100 cu. ft.

BARAGA, 1,071.

MUNICIPAL.

City Pres., A. E. Funkey.....Baraga
" Clerk, Geo. E. Deffoe..... "
Supt., Robt. E. Martin..... "
Engr. P'g. Sta., Thos. Perry..... "

Lake Superior & well, 15 ft. in diam. 25 ft. deep.

Pumps, 1-576,000 gal. Deane d. con. to gasoline engine, 50-hp. National; pumping to standpipe (1912) concrete.

Pipe, 3.5 mi. 4 to 8-in.; hyd. 21, hose con. 2½-in. Waterous; valves, 16; meters, none; av. daily cons. 150,000-gal.; serv. con. 250; ord. pres. 60 to 80 lb., fire pres. 80 to 115 lb.

Rates: flat, 50c. mo., bath 25c., closet 25c.

BATTLE CREEK, 25,267.

MUNICIPAL. Supplies Washington Heights.

Mayor, J. W. Bailey.....Battle Creek
Comr., L. W. Underwood..... " "
Supt., W. W. Bridgen..... " "

Lake & wells, 5-110 to 150 ft. deep; 2 mi. from center distribution; chemical, liquid chlorine.

Boilers, 2 fire-tube 125-hp. ea. Erie; pumps, 5-2 comp. duplex d. act., one comp. duplex c. & f. wh., two motor driven centrifugal, 4-3,000,000 gal. ea. & 1-1,500,000 gal. Blake & Union; pumping direct & to standpipe, 143,000 gal.

Pipe, 73 mi. 4 to 20-in. c. i.; hyd. 720 R. D. W.; valves, 585 R. D. W., Eddy & Roe Stephens; meters, 6400 National Thomson, Neptune & Worth.; av. daily cons. 2,500,000 gal.; serv. con. 6700; ord. pres. 80 lb.

Rates: meter, 13c. 1000 gal. max. 4c. min.

BAY CITY, 45,166.

MUNICIPAL.

Supt., E. L. Dunbar.....Bay City
Engr. P'g Sta., James E. Darling.. " "

Saginaw Bay of Lake Michigan; 4 mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 8 hor. tubular 800-hp.; hand stoking; 5-17,000,000-gal. Holly & Allis-C., 1-5,000,000-gal. Allis-C.; pumping direct.

Pipe, 101 mi. 4 to 30-in. c. i.; hyd. 930, hose con. 2½-in. R. D. W., Holly, Ludlow & Roe-Stephens; valves, 1563 r. h. thd. various; meters, 2500 various; av. daily cons. 6,725,000 gal.; serv. con. 6200; ord. pres. 40 lb., fire pres. 70 to 90 lb.

Rates; flat, $5 year; meters, 10c. 1000 gal. max., 3c. min.

BEAVERTON, *750.

MUNICIPAL

Mayor, John Wiler.....Beaverton

Tobacco River; pumps, 1-450,000 gal. duplex; pumping direct & to elev. tank; pipe, 1.2 mi. 4 to 8-in.; hyd. 16; ord. pres. 65 lb.

BELDING, 4,119.

MUNICIPAL.

Chmn. Comrs., F. W. Howard.....Belding
Comr., L. A. Dimmick..... "
" F. A. Totton..... "
Supt., P. A. Frederick..... "
Cons. Engrs.,
The W. J. Sherman Co.....Toledo, Ohio

Wells, 16 tubular 4½ & 6-in. 70 to 80 ft. deep; ½ mi. from center distribution; settling basin, 107,000 gal.

Boilers, 2 fire-tube 100-hp. ea. Brownell; hand stoking; pumps, 2-1,000,000 gal. ea. L-D-G. & Platt; pumping to elev. tank, 100,000 gal.

Pipe, 16 mi. 4 to 12-in.; hyd. 52, hose con. 2½-in. Chapman, Michigan, Galvin & Darling; meters, 600; av. daily cons. 245,000 gal.; serv. con. 750; ord. pres. 70 to 80 lb., fire pres. 100 to 120 lb.

BELLAIRE, 1,050.

BELLAIRE WATER SUPPLY CO.

Supt., Henry Richardi.....Bellaire
Engr. P'g. Sta., Elmer Mayne..... "

Intermediate River; near center distribution; no purification.

Pump, 1-1,000,000 gal. Worth. belted to water-turbine, 200-hp. Leffel; elec. motors, 35 kw. 2200 v. 3 ph. 60 cys. G. E.; elec. energy from Hydraulic Power & Light Co.; pumping direct & to reservoir, 2,000,000 gal.

Pipe, 4 mi. 4 to 12-in. w. i.; hyd. 22, hose con. 2½-in. Galvin; valves, 1. h. thd. Galvin; meters, none; av. daily cons. 500,000 gal.; serv. con. 300; ord. pres. 60 to 80 lb., fire pres. 60 to 120 lb.

BENTON HARBOR, 9,185.

MUNICIPAL.

Supt.,
Edward A. Richardson...Benton Harbor
Sec., D. Spaulding..... " "

Cons. Engrs.,
Alvord & Burdick.....Chicago, Ill.
Wells, 9 6-in. 160 ft. deep; pumps, 1-1,300,000 gal. duplex Canton 1890, 1-2,080,000 gal. triplex Goulds 1903; pumping direct & to elev. tank, 25,000 gal.
Pipe, 25 mi. 1 to 18-in. c. i.; hyd. 206; ord. pres. 62 lb.

BERRIEN SPRINGS, 880.

MUNICIPAL.
Village Pres.,
Phillip Kephart.....Berrien Springs
Town Clerk & Supt.,
Walter Priddy..... " "
Treas, James E. Boone.... " "
Cons. Engr.,
Wm. C. Moore.....South Bend, Ind.
Wells, 2 tubular 10-in. 134 ft. deep; ½ mi. from center business section; no purification.
Pump, 2-288,000 gal. vert. duplex Keystone 1914 d. con. to elec. motors, 2 25-hp. ea. 440 v. 3 ph. 60 cys. G. E. 1914; elec. energy from Indiana & Michigan Electric Co.; pumping to elev. tank (1914) 50,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 32, hose con. 2 ½-in. R. D. W.; valves, 21 l. h. opening Clow; meters, one Buffalo; av. daily cons. 50,000 gal.; serv. con. 110; ord. pres. 45 to 60 lb., fire pres. 55 to 80 lb.
Rates: flat, $5 year.

BESSEMER, 4,583.

MUNICIPAL.
Supt., Wm. L. Guyer.....Bessemer
Comr., G. F. Williams..... "
Wells, 4 open 8 to 25 ft. in diam. 8 to 30 ft. deep.
Pumps, 1-180,000 gal. comp. duplex Platt 1893; pumping direct & to elev. tank, 125,000 gal.
Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 53; ord. pres. 112 lb.

BIG RAPIDS, 4,519.

MUNICIPAL.
Mayor, Dr. Lynch.....Big Rapids
Comr., W. Northrup..... " "
" Mr. Miles..... " "
Town Clerk, Barney Lacer..... " "
Muskegon River; ¾ mi. from center business section; no purification; pumps, one vert. triplex geared to wtr. turbine; pumping direct.
Rates: flat, $1 quarter, bath 50c., closet 50c.

BIRMINGHAM, 1,607.

MUNICIPAL.
Chmn. Comrs.,
J. A. Wendorph..... Birmingham
Supt., D. B. Wilkinson..... "
Engr. P'g. Sta., A. F. Carter.. "
Wells, 14 tubular 6-in. 35 to 75. deep; ½ mi. from center distribution.
Boilers, 2 hor. 40-hp.; hand stoking; pumps, 3 Canton; pumping direct.
Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 70, hose con. 3-in.; meters, 150 Pittsburgh; av. daily cons. 250,000 gal.; serv. con. 600; ord. pres. 50 lb., fire pres. 90 lb.
Rates: flat, $12 year; meters, 12c. 1000 gal.

BOYNE CITY, 5,218.

MUNICIPAL.
Pres. Bd. Pub. Wks., Wm. Caplin, Boyne City
Mayor, C. C. Schaub..... " "
Clerk, J. L. Ekstrom..... " "
Supt., H. H. Tuker..... " "
Wells, 7 tubular 6 & 8-in. 86 ft. deep; near center distribution; no purification.
Pumps, driven by elec. motor, 50-hp. 220 v. 3 ph. 60 cys. Allis-C., 75-hp. 220 v. 3 ph. 60 cys. Westg., pumping direct, to reservoirs, 2-700,000 gal. & to elev. tank, 500,000 gal. concrete.
Pipe, 15 mi. 4 to 12-in. c. & w. i.; hyd. 119, hose con. 2½-in. Eddy & National; valves, 88 r. h. thd. Eddy & Crane; meters, 60 Pittsburgh; av. daily cons. 810,000 gal.; serv. con. 924; ord. pres. 38 to 45 lb., fire pres. 95 to 135 lb.
Rates: flat, $6 year; meter, 10c. 1000 gal.

BRONSON, 1,120.

MUNICIPAL.
Chmn. Comr. J. H. Friedrich.....Bronson
Comr., A. G. Bushnell..... "
" R. E. Carroll..... "
Town Clerk, B. P. Taggart..... "
Supt., C. J. Scribner..... "
Engr. P'g. Sta., L. Fordham..... "
Wells, 4 tubular 6-in. 40 ft. deep; ½ mi. from center business section.
Boilers, 2 fire tube 80-hp. ea. 100 lb. Murray 1906 & Gem 1910; pumps, 1-2,000,000 gal. hor. comp. d. act. Fairbanks 1910; pumping direct & to elev. tank (1910) 50,000 gal. steel, Des Moines Bridge & Iron Co.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 39, hose con. 2½-in. Clow; valves, 26 r. h. opening Crane; av. daily cons. 100,000 gal.; serv. con. 170; ord. pres. 55 to 60 lb. fire pres. 100 to 125 lb.
Rates: flat, bath $2 year, closet $2.

BROWN CITY, 690.

MUNICIPAL LIGHT & WATER WORKS.
Mgr., M. Burkholder.....Brown City
Supt., Geo. W. Burger..... " "
Mayor, Geo McKay..... " "
Wells, 4 tubular 6-in. 300 ft. deep.
Boilers, one 125-hp. 130 lb. Gem 1912; one 50-hp. 110 lb. Wickes 1900; hand stoking; pump, 1-8,000,000 gal. hor. comp. d. act. Fairbanks 1912; steam engine, 125-hp. Corliss Murray 1908; elec. motor, 120 kw. 110 v. 3 ph. 60 cys. Ft. Wayne 1912; pumping to elev. tank (1912) 5,000,000 gal. iron, Chicago Bridge & Iron Works.
Pipe, 5 mi. 2 to 10-in. c. i.; hyd. 25, hose con. 2½-in. Roe-Stephens; valves, 10 r.h. opening Crane; av. daily cons. 4.000,000 gal.; ord. pres. 48 to 62 lb., fire pres. 70 to 100 lb.
Rates: flat, $6.00 year, bath $1.50, closet $1.50.

BUCKLEY, 464.
MUNICIPAL.
Vil. Pres., J. I. Purdy.....Buckley
Clerk, George Clement..... "
Wells, 3 tubular 4-in. 53 ft. deep.
Pumps, 2-52,000 gal. 1910, 1-36,000 gal. 16 ft. windmill owned by Flint & Walling Mfg. Co.; pumping to standpipe, 32,000 gal.
Pipe, 0.75 mi. 4 & 6-in.; hyd. 10; ord. pres. 63 lb.

CADILLAC, 8,375.
CADILLAC WATER & LIGHT CO. (Controlled by Commonwealth, Power, Light & Railway Co.)
Pres., B. C. Cobb.....New York, N. Y.
V. Pres., W. J. McCoy..... Jackson
Tres. & Gen. Mgr.,
George D. Westover..... Cadillac
Boilers, 3 wtr. tube 650-hp. Wickes; mechanical filters; pumps, 4-8,000,000 gal. Worth., Holly & L.-D.-G.; pumping direct.
Pipe, 23 mi. 4 to 18-in. c. i.; hyd. 175, hose con. 2½-in. Holly & Galvin; av. daily cons. 2,000,000 gal.; serv. con. 1600; ord. pres. 60 to 80 lb., fire pres. 100 to 150 lb.

CALUMET, 20,000.
CALUMET & HECLA MINING CO. Office, Calumet Ave.
Supt., Thos. Soddy.....Calumet

CARO, 2,272.
CARO WATER WORKS CO.
Pres., M. G. Atwood.....Caro
V. Pres., T. W. Atwood..... "
Sec., Mrs. Alice Boegert,
509 Congress St., Saginaw, W. S.
Supt., Chas. Middaugh.....Caro
Engr. P'g. Sta., Franklin Middaugh... "
Springs; one mi. from center business section; no purification.
Boilers, one hor. tubular 50-hp. 100 lb. Jackson 1905; hand stoking; pumps, 2-496,800 gal. hor. comp. d. act. Deane 1888, 1-720,000 gal. vert. triplex Deane 1912 belted to elec. motor, 50-hp. 220 v. s. ph. 60 cys. Wagner 1912; pumping to standpipe (1888) 275,000 gal.
Pipe, 9.5 mi. one to 8-in. c. & w. i.; hyd. 43 R. D. W.; valves, 33 r. & l. h. opening; meters, 108 Pittsburg, Neptune, National & Hersey; av. daily cons. 250,000 gal.; serv. con. 597; ord. pres. 60 lb., fire pres. same.
Rates: flat, $2 quarter, bath $1, closet $1; meter, min. charge $3 quarter, 8571 gal., 35c. 1000 gal. max., 8c. min.

CARSON CITY, 808.
MUNICIPAL.
Comr., R. A. Brooks.....Carson City
Supt., Sam Ladue..... " "
Fish Creek; pump, 1-720,000 gal. duplex double act. Deane 1913; pumping to standpipe, 90,000 gal.; pipe, 2.5 mi. 4 to 8-in.; hyd. 22; ord. pres. 49 lb.

CARSONVILLE, 401.
MUNICIPAL.
Vil. Pres., W. J. McCaren.....Carsonville
Wells, 2 tubular 6 & 8-in. 146 & 154 ft. deep.
Pumps, 2-360,000 gal. ea. F. M. 1909 & 1913; pumping to elev. tank, 60,000 gal.
Pipe, 1.2 mi. 2 to 6-in.; hyd. 14.

CASS CITY, 1,126.
MUNICIPAL.
Village Pres., S. F. Biglow.....Cass City
Clerk, Merdith Auten..... " "
Supt. & Engr. P'g. Sta.,
W. U. Straube..... " "
Wells, 2 tubular 6-in. 120 ft. deep; ½ mi. from center business section.
Boilers, 2 hor. tubular 80-hp. ea. 95 lb. MacKinnon 1915, one hor. tubular 80-hp. 125 lb. Wickes 1901; pumps, 2-500,000 gal. hor. simple duplex Deane 1915; steam engine, 125-hp. hor. simple McEwen 1915, 70-hp. hor. Skinner 1901; pumping direct.
Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 36, hose con. 2 ½-in. Michigan; valves, 8 l. h. opening; serv. con. 126; ord. pres. 30 lb., fire pres. 70 to 100 lb.
Rates: flat, $1 quarter, bath 25c., closet 50c.

CASSOPOLIS, 1,358.
MUNICIPAL.
Vil. Pres., Wm. E. McCutchen...Cassopolis
Supt., W. D. Hopkins..... "
Stone Lake; pumps, 1-864,000 gal. Canton-Hughes 1908, 1-864,000 gal. duplex Gordon 1893; pumping direct; pipe, 5 mi. 2 to 10-in.; hyd. 39.

CEDAR SPRINGS, 947.
MUNICIPAL.
Supt., C. S. Clark.....Cedar Springs
Springs, ½ mi. from center distribution.
Boilers, 2 tubular 40-hp.; hand stoking; pump, 1-576,000 gal. F. M.; elec. motors, 35-hp. 440 v. 30 cys. G. E.; elec. energy from Grand Rapids & Muskegon Pwr. Co.; pumping to elev. tank, 50,000 gal. wood.
Pipe, 2 mi. 4 to 12-in. c. i. & wood; hyd. 76, hose con. 2½-in. Roe-Stephens; valves, 14 l. h. thd. Michigan; meters, 10 Hersey; av. daily cons. 150,000 gal.; serv. con. 185; ord. pres. 55 lb., fire pres. 95 lb.

CENTRAL LAKE, 813.
CENTRAL LAKE WATER SUPPLY CO.
Sec., A. F. Wallbrecht.....Central Lake
Impounding reservoir, 30 x 16 x 12 ft.; gravity distribution; pipe, 2 mi. 2 & 3-in.; hyd. 8; av. daily cons. 53,000 gal.

CHARLEVOIX, 2,426.
MUNICIPAL. Board of Public Works.
Pres. R. B. Armstrong..... Charlevoix
Mbr., L. P. Adams..... "
" R. W. Padock..... "
" A. Burgeon..... "
" J. F. Baker..... "
Supt., A. J. Hamilton..... "
Wells, 2-24 ft. in diam. 30 ft. deep; ½ mi. from center distribution.

Boiler, tubular 200-hp. Sterling; hand stoking; pumps, 1-864,000 gal. Worth., 1-1,440,000 gal. Worth.; elec. motors, 65 kw. 2000 v. 2 ph. 60 cys. Westg.; pumping to elev. tank (1906) 100,000 gal. steel.

Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Crane, R. D. W. & Eddy; valves, 40 r. h. thd.; meters, 200 Neptune, Buffalo & Standard; serv. con. 750; ord. pres. 40 to 100 lb., fire pres. same.

Rates: meters, 10c. 1000 gal.

CHARLOTTE, 4,886.

MUNICIPAL.

Comr., Albert Murray.....Charlotte
" George Bennett..... "
" H. S. Shepard..... "
Supt. & Engr. P'g. Sta.,
C. E. Ballard..... "

Wells, 5 tubular 6-in. 85 to 100 ft. deep; settling basin, 20 x 30 ft.

Boilers, 2 return tubular 180-hp. Walker; hand stoking; pumps, 2-4,500,000 gal. Holly & Walker; pumping direct.

Pipe, 17.69 mi. 4 to 12-in. c, i.; hyd. 123, hose con. 2½-in. Ludlow; valves, 240 l. h. thd. Ludlow; meters, 122 Hersey, National & Pittsburgh; av. daily cons. 8680 gal.; serv. con. 1420; ord. pres. 45 lb., fire pres. 80 to 100 lb.

Rates: flat, $5 year; meters, 10c. 1000 gal.

CHEBOYGAN, 6,859.

MUNICIPAL.

City Engr., A. F. Watson, Jr.....Cheboygan

CHELSEA, 1,764.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.

Treas., H. E. Cooper.....Chelsea
Pur. Agt., R. E. Jones..... "
Engr. P'g. Sta., M. Lowery..... "

Boiler, 350-hp. Sterling; steam engine, 200-hp. Ellis.

CHESANING, 1,363.

MUNICIPAL.

City Pres., Edwin Elliot.....Chesaning
Clerk, J. F. Stevens..... "
Supt. & Engr. P'g. Sta.,
R. L. Blackmore..... "

Wells, 4 tubular 4-in. 372 ft. deep; near center distribution; reservoir, 75,000 gal.

Boilers, 3 fire & water-tube 280-hp. Erie & B. & W.; mechanical stoking, Jones; pumps, 2-1,500,000 gal. F. M.; pumping direct.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 2½-in. Ludlow; valves, 15 r. h. thd. Ludlow; meters, 175 National; av. daily cons. 50,000 gal.; serv. con. 300; ord. pres. 45 to 55 lb., fire pres. 80 to 120 lb.

Rates: flat, $4 year; meter, 15c. 1000 gal.

CLARE, 1,350.

MUNICIPAL.

Mayor, L. E. Davy.....Clare
Supt. & Engr., P'g. Sta.,
W. J. Holmes..... "
Cons. Engrs.,
The W. J. Sherman Co.....Toledo, Ohio

Wells, 5 tubular 6-in. 48 ft. deep; ⅓ mi. from center distribution; no purification.

Pumps, 2-500,000 gal. ea. triplex Goulds; gasoline engines, 230-hp. ea. Wooley; pumping to standpipe (1905) 75,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i. wood; hyd. 33, hose con. 2½-in. Holly, Baily & Ludlow; valves, 33 r. & l. h. thd. Holly & Crane; meters, 30 Buffalo, Pittsburgh & Worth.; av. daily cons. 250,000 gal.; serv. con. 375; ord. pres. 35 to 50 lb., fire pres. 75 to 100 lb.

Rates: flat, $6 year; meter, 10c. 1000 gal.

CLINTON, 1,011.

Clinton Woolen Mfg. Co.

Raisin River; near center distribution; no purification, water is not sufficiently pure for drinking purposes.

Boilers, 4 water-tube 150-hp. ea. Wickes & B. & W.; mechanical stoking, Jones; pumps, 1-1,008,000 gal. F. M.; pumping direct.

Pipe, one mi. 4 to 12-in. c. i.; hyd. 12, hose con. 2½-in. Roe-Stephens; valves, 2 r. h. thd.; meters, 4 Buffalo; av. daily cons. 750,000 gal.; mfg. demand 500,000 gal.; serv. con. 40; ord. pres. 35 to 40 lb., fire pres. 100 lb.

Rates: meter, 20c. 1000 gal. max., 10c. min.

COLDWATER, 5,945.

MUNICIPAL.

Supt., K. E. Norton.....Coldwater
Engr. P'g. Sta., Geo. Moag..... "

Wells, 30 ft. in diam. 42 ft. deep; no purification.

Boilers, 2 fire-tube 150-hp. ea. Erie, one water-tube 300-hp. Murray; mechanical stoking, Jones; pumps, 2-1,500,000 gal. ea. steam, 1-3,000,000 gal. belted to elec. motors, 100-hp. 220 v. 2 ph. 60 cys. Westg.; pumping direct.

Pipe, 23 mi. 4 to 12-in. c. i.; hyd. 125, hose con. 2½-in.; valves, l. h. thd.; meters, none; serv. con. 1650; ord. pres. 40 to 60 lb., fire pres. 110 to 125 lb.

COLOMA, 701.

COLOMA WATER CO.

Pres., Wm. A. Baker.....Coloma
Secy. & Treas., Allen W. Baker.... "

Wells, 3 artesian 4-in. 40 ft. deep; ¾ mi. from center distribution; no purification.

Pumps, 1-108,000 gal. Deming belted to elec. motors, 220 v. d. c. Westg.; water rams, 2 Rife; elec. energy from Benton Harbor, St. Joe Ry. & Lt. Co.; pumping to standpipe (1908) concrete.

Pipe, 0.5 mi. 4 to 12-in. c. i.; av. daily cons. 25,000 gal.; serv. con. 175; ord. pres. 30 to 40 lb., fire pres. 40 to 50 lb.

Rates: flat, $6 year, bath & closet $3; meters, 12c. 1000 gal.

COLUMBIAVILLE, 369.

WILLIAM PETER ESTATE.

Gen. Mgr., R. S. Spencer....Columbiaville
Engr. P'g. Sta., E. D. Seeley "

Well, 6-in. 300 ft. deep; near center business section; reservoir, 45,000 gal.; natural filtration.

Boilers, 2 hor. 80-hp. ea. 100 lb. MacKinnon 1910; pumps, 2-1,008,000 gal. hor. comp. simple F. M.; steam engine, 150-hp. H. O. R. 1912; pumping direct.

Pipe, one mi. 4 to 6-in. c. i.; hyd. 11, hose con. 2½-in.; valves, 2; daily cons. 50,000 gal.; ord. pres. 40 to 60 lb., fire pres. 80 to 120.

CONSTANTINE, 1,244.

MUNICIPAL.

Vil. Pres., E. P. Hartlow.....Constantine

Fawn River; pumps, 1-900,000 gal. double act. Deane 1887; pumping direct; pipe, 5 mi. 4 to 10-in.; hyd. 52; ord. pres. 22 lb.

COOPERSVILLE, 814.

MUNICIPAL.

Vil. Pres., Chas P. Lillie.....Coopersville
Vil. Engr., E. H. Teck..... "

Springs & wells, 6 driven 2 to 8-in. 90 to 112 ft. deep; pumps, 1-500,000 gal. triplex double act. 1904; pumping direct & to elev. tank, 30,000 gal.; pipe, 2.2 mi. 4 to 8-in.; hyd. 23; ord. pres. 130 lb.

CORUNNA, 1,384.

MUNICIPAL.

Supt., A. J. Worthington.....Corunna

Wells, 4 tubular 6-in. 135 ft. deep; near center distribution; no purification.

Boilers, 2 hor. tubular 50-hp. ea. 60 to 80 lb. Walker 1904; hand stoking; pumps, 1-20,000 gal. duplex Walker 1904; steam engine, Walker 1914; pumping to elev. tank (1904) 65,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 6 mi. 4 to 10-in. c. i.; hyd. 55, hose con. 2½-in.; valves, 21 r. h. opening Crane; meters, 165 National & Neptune; av. daily cons. 31,000 gal.; serv. con. 170; ord. pres. 42 to 50 lb., fire pres. 45 to 120 lb.

Rates: meter, min. charge $1.00 quarter, 3000 gal., 33⅓c. 1000 gal. max. 25c. min.

CROSWELL, 1,380.

MUNICIPAL.

Mayor, F. J. Ballentine.....Croswell
Comr., Mr. Leamont..... "
" Mr. McIntyre..... "
" Mr. Jackson..... "
Clerk, Geo. A. Kerslake..... "
Supt., G. C. Harrison..... "

Black River; boilers, 2 tubular 100-hp. ea. 100 lb. Peninsula 1906; hand stoking; pump, Walker 1895; pumping to elev. tank (1912) 75,000 gal. iron, Chicago Bridge & Iron Works.

Pipe, 10 mi. 4 to 8-in. wood; hyd. 50, hose con. 2½-in. Roe-Stephens; valves, 17 r. & l. h. opening Roe-Stephens; meters, 2 Crane; av. daily cons. 300,000 gal.; serv. con. 320; ord. pres. 45 lb., fire pres. 100 to 125 lb.

CRYSTAL FALLS, 3,775.

MUNICIPAL.

Supt., J. M. Sanders.....Crystal Falls

Paint River; ¾ mi. from center distribution; no purification.

Pumps, 2-1,500,000 gal. Platt & Goulds driven by water-turbines; pumping to standpipe, steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Ludlow, Eddy & Kennedy; valves, 25 r. h. thd. Ludlow & Eddy; meters, one Buffalo; av. daily cons. 500,000 gal.; serv. con. 435; ord. pres. 120 to 125 lb., fire pres. same.

Rates: flat, 45c. mo., bath & closet 30c. meters, 6c. 1000 gal.

DECATUR, 1,296.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Vil. Pres., L. D. Roberts.....Decatur
V. Pres., O. D. Newell..... "
Sec., F. H. Hiskley..... "
Treas., Orris Roberts..... "
Mgr., A. V. Morlin..... "
Engr. P'g. Sta., J. Hallock..... "

Wells, 2 tubular 6-in. 115 ft. deep; pumps, 1-432,000 gal. Worth. 1895, 1-864,000 gal. Burman 1901; pumping direct & to elev. tank, 52,000 gal.

Pipe, 3 mi. 4 to 8-in.; hyd. 38; ord. pres. 63 lb.

DECKERVILLE, 628.

MUNICIPAL.

Supt., C. Adiel Sink.....Deckerville

Wells, 3 tubular 6-in. & 65 ft. deep; near center distribution.

Boilers, 2 hor. tubular 80-hp. H. S. G.; hand stoking; pumps, 1-720,000 gal. Buffalo, 3 Marsh well; pumping direct & to reservoir, 45,000 gal.

Pipe, 3.5 mi. 4 to 12-in. wood; hyd. 29, hose con. 2½-in. Roe-Stephens; valves, 13 l. h. thd. Michigan; meters, none; av. daily cons. 29,000 gal.; serv. con. 92; ord. pres. 40 lb., fire pres. 100 lb.

DOWAGIAC, 5,088.

MUNICIPAL.

Pres. Comr., F. J. Dunnington...Dowagiac
Sec., J. Pemberton..... "
Supt., Wm. E. Reynolds..... "

Artesian wells, 12 tubular 6-in. 100 ft.; ½ mi. from center business section.

Boilers, one 125-hp. 125 lb. Lyons 1906, one wtr. tube 117-hp. 160 lb. B. & W. 1914; pumps, 1-1,500,000 gal. hor. comp. c. & f. wh. Canton 1911, 1-1,000,000 gal. hor. simple d. act. Holly 1889; steam engine, 60-hp. Ball 1890; pumping direct.

Hyd. 101, hose con. 2 ½-in. R. D. W. & Eddy; valves, l. h. opening; meter, National & Thomson; av. daily cons. 300,000 gal.; serv. con. 900; ord. pres. 60 lb., fire pres. 90 to 125 lb.

Rates: meters, min. charge $1.00 quarter 4350 gal., 14c. 1000 gal. max., 10c. min.

DURAND, 2,315.
MUNICIPAL.
Chmn. Comrs., T. Henry.....Durand
Comr., F. Durham..... "
Supt. & Des. Engr., H. F. Rosencrans "
Wells, 11 tubular 6-in. 65 ft. deep; one mi. from center distribution; reservoir, 200,000 gal.; no purification.
Boilers, 2 vert. 400-hp. Wickes; hand stoking; pumps, 3-2,000,000 gal. L-D-G., 1-500,000 gal. belted to elec. motor, 25 kw. 440 v. 3 ph. 60 cys. F. M.; elec. energy from municipal elec. plant; pumping direct.
Pipe, 15 mi. 4 to 10-in.; hyd. 49, hose con. 2½-in. Bourbon & Kennedy; valves, 40 r. h. thd. Roe-Stephens; meters, 25 Buffalo & Hersey; av. daily cons. 750,000 gal.; serv. con. 550; ord. pres. 30 to 40 lb., fire pres. 60 to 100 lb.
Rates: flat, $4 year, bath & closet $10.

EAST JORDAN, 2,516.
MUNICIPAL.
Mayor, A. E. Cross.....East Jordan
Fire Ch., Eugene Adams..... " "
Wells, 12 tubular 3-in. 60 to 125 ft. deep; pumps, 1-500,000 gal. triplex 1909, 1-750,000 gal. triplex Goulds 1900; pumping direct & to reservoir, 200,000 gal.
Pipe, 7 mi. 2 to 10-in.; hyd. 55; ord. pres. 71 lb.

EAST TAWAS, 1,452.
MUNICIPAL.
Pres. Comr., M. Luffmane.....East Tawas
Comr., E. Bartlett..... " "
" A. Misener..... " "
Clerk, A. J. Noel..... " "
Supt. & Engr. P'g. Sta.,
J. M. Dilworth..... " "
Saginaw Bay.
Boilers, one hor. 60-hp. 100 lb. Commercial 1890, one hor. 100-hp. 100 lb. 1914; hand stoking; pumps, 2-400,000 gal. hor. simple d. act. Holly 1887; steam engine, 150-hp. Vilter 1905; pumping direct.
Hyd. 30, hose con. 3-in.; valves, 20 l. h. opening; meters, 6 Pittsburg; ord. pres. 40 lb., fire pres. 80 lb.
Rates: flat, $2.25 quarter, bath $3, closet $3; meter, 15c. 1000 gal.

EATON RAPIDS, 2,194.
MUNICIPAL.
Mayor, Sumner Hamlin.....Eaton Rapids
Supt. Utilities, C. M. Hunt... " "
Comr. of Finance, C. Glascof. " "
Clerk, H. H. Degolia..... " "
Supt., I. R. Ellison..... " "
Wells, 5 artesian 6 to 12-in. 200 to 700 ft. deep; ½ mi. from center business section; no purification.
Boilers, 6 100-hp. 110 lb. Erie 1906 & 1908; hand stoking; pumps, 3-1,000,000 hor. comp. d. act. Hughes 1901; pumping to standpipe (1901).
Pipe, 4 to 10-in. c. i.; hyd. 46, hose con. 3-in. Eddy; valves, 8 r. h. opening Eddy; meters 6; av. daily cons. 180,000 gal.; serv. con. 550; ord. pres. 40 lb., fire pres. 40 to 90 lb.
Rates: flat, $13 year; meter, min. charge $5 year, 15c. 1000 gal.

ELK RAPIDS, 1,673.
ELK RAPIDS WATER SUPPLY CO.
Pres., Lincoln Brown.....Chicago, Ill.
Gen. Mgr., John B. Griffen....Elk Rapids
Treas., C. D. Towne..... " "
Supt. & Engr. P'g. Sta.,
C. E. Wheeler..... " "
Elk Lake; one mi. from center distribution; no purification.
Pumps, 2-1,000,000 gal. Walker, 1-1,000,000 gal. Goulds d. con. and belted to water-turbines, 250-hp. ea. Leffel; pumping direct.
Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 64, hose con. 2½-in. Galvin & Ludlow; valves, 52 r. h. thd. Ludlow & Crane; meters, 21 Pittsburgh; av. daily cons. 350,000 gal.; serv. con. 335; ord. pres. 40 to 50 lb., fire pres. 80 to 100 lb.
Rates: flat, $4 year, bath & closets $6; meter, 20c. 1000 gal. max., 8c. min.

ELKTON, 553.
MUNICIPAL.
Vil. Clerk, A. T. Wells.....Elkton
Wells, 8-in. 338 ft. deep; pumps, 1-400,000 gal. 1908; pumping direct; pipe, one mi. 4 to 6-in.; hyd. 14.

EMPIRE, 578.
MUNICIPAL.
Village Trustee, James Daly.....Empire
Pumping by Empire Lumber Co.; pipe, 6-in. c. i.; hyd. 19, hose con. 2-in.; valves r. h. opening.
Rates: flat, $5 year.

ESCANABA, 13,194.
NORTH MICHIGAN WATER CO. Office, Scranton, Pa.
Pres., J. E. Wiesenfluh .....Scranton, Pa.
Treas., Thos. R. Brooks ..... " "
Supt., Robert P. Roberts.....Escanaba
Cons., Engr., L. E. Chapin...Pittsburg, Pa.
Engr. P'g. Sta., A. Larson.....Escanaba
Chemist, A. Christee..... "
Green Bay; coagulating basin, 400,000 gal.; mechanical filters, 6,000,000 gal.; chemical, sulphate of alumina.
Boilers, 2 Scotch marine 200-hp. ea. 150 lb. Springfield 1914; hand stoking; pumps, 1-3,000,000 gal. hor. comp. c. & f. wh. Snow 1902, 1-5,000,000 gal. hor. comp. c. & f. wh. Allis-C. 1914, 2-6,000,000 gal. ea. hor. centrifugal Prescott 1902 d. con. to steam engine; pumping direct.
Pipe, 26 mi. 4 to 16-in. c. i.; hyd. 225, hose con. 2 ½-in. Ludlow; valves, 172 l. h. opening Ludlow; meters, 380 National & Neptune; av. daily cons. 1,773,000 gal.; serv. con. 2235; ord. pres. 55 to 60 lb., fire pres. 100 to 125 lb.
Rates: flat, $5.75 year, bath $4, closet $4; meter, min. charge $1.25 quarter 4200 gal., 30c. 1000 gal. max. 6c. min.

ESSEXVILLE, 1,477.
MUNICIPAL.
Vil. Clerk, Geo. F. Hecot.....Essexville
River; pipe, 4 mi. 6 & 8-in.; hyd. 32; av. daily cons. 30,000 gal.

EVART, 1,386.
MUNICIPAL.
Vil. Pres., Irvin Chase.....Evart
Supt. & Engr. P'g. Sta., Thos. Seath.. "
Wells, 2 open 12 ft. in diam. 24-ft. deep; near center distribution; no purification.
Boilers, 2 hor. 60-hp. Wickes; hand stoking; pumps, 3-750,000 gal. Walker; pumping direct.
Pipe, 3.5 mi. 4 to 12-in. c. i. & wood; hyd. 35, hose con. 4 to 10-in. Roe Stephens & Holly; valves, r. & l. h. thd.; meters, 6; av. daily cons. 500,000 gal.; serv. con. 326; ord. pres. 20 to 40 lb., fire pres. 80 to 100 lb.

FARMINGTON, *600.
MUNICIPAL.
Supt., Thos. H. McGee.....Farmington
Wells, 2 tubular 4 & 8-in. 170 ft. deep.
Pumps, 1-25,000 gal. Dayton 1912 geared to elec. motor, 5-hp. 220 v. 3 ph. Wagner 1912, 1-132,000 gal. Dayton 1912 geared to elec. motor, 7.5-hp. 220 v. 3 ph. Wagner 1912, 1-432,000 gal. Dayton 1912 geared to elec. motor, 30-hp. 220 v. 3 ph. Westg. 1912; air compressor driven by elec. motor, 3-hp. 220 v. 3 ph. Wagner 1912; pumping to reservoir, 60,000 gal. & elev. tank, 10,000 gal.
Pipe, 3.6 mi. 4 to 8-in. wood; hyd. 34; serv. con. 48; ord. pres. 30 to 50 lb.
Rates: meter, min. charge $1.50 quarter 9000 gal., 50c. 1000 gal. max., 10c. min.

FARWELL, 532.
MUNICIPAL.
Vil. Pres. & Supt., Carl Updegraff..Farwell
Clerk, G. E. Lamb..... "
Engr. P'g. Sta., Frank Babcock.... "
Tobacco River & spring; at center distribution; no purification.
Boilers, 2 hor. 40-hp.; hand stoking; pumps, 2 Walker; pumping to elev. tank, 50,000 gal. steel.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 22, hose con. 2½-in. various; valves, 12 l. h. thd.; av. daily cons. 30,000 gal.; serv. con. 60; ord. pres. 35 to 40 lb., fire press. 60 to 90 lb.

FENNVILLE, 533.
MUNICIPAL.
Comr., Geo. L. Dutcher.....Fennville
" L. S. Dickinson..... "
" L. A. Baron..... "
Supt., Geo. W. Dutcher..... "
Cons. Engr., Wm. Daus.....Bangor, Me.
Wells, 4 tubular 4 & 6-in. 23 ft. deep; near center distribution; no purification.
Pumps, 1-350,000 gal. Pittsburgh, Deming d. con. to gasoline engine, 50-hp. Foos; pumping to standpipe (1913) 40,000 gal. steel.
Hyd. 21, hose con. 2½-in. Iowa; valves, 15 r. h. thd. Iowa; meters, 6; av. daily cons. 20,000 gal.; serv. con. 100; ord. pres. 50 lb., fire pres. 50 lb.
Rates: flat, $6 year; meter, 20c. 1000 gal.

FENTON, 2,331.
MUNICIPAL.
Supt., M. Whitley.....Fenton
Clerk, Ross McCurdy..... "
Wells, 9 tubular 6-in. 90 to 140 ft. deep; near center distribution; reservoir, 60,000 gal.; no purification.
Boilers, 2 tubular 40-hp. Eagle; hand stoking; pumps, 2-1,500,000 gal. Walker; pumping direct.
Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 55, hose con. 3-in.; valves, 25 r. h. thd. Murdock; av. daily cons. 200,000 gal.; serv. con. 700; ord. pres. 55 to 60 lb., fire pres. 80 to 100 lb.

FLINT, 38,550.
MUNICIPAL.
Pres. Comrs., Edwin Sterner.....Flint
Secy., D. E. Newcombe..... "
Comr., C. M. Miller..... "
Supt., W. L. Fisher..... "
River; one mi. from center distribution; mechanical filters, 8,000,000 gal. Pittsburgh; chemicals, hypochlorite of lime & sulphate of alumina.
Boilers, 3 vert. water-tube 250-hp. ea. Wickes; pumps, 1-12,000,000 gal. hor. comp. c. & f. wh. Snow, 1-7,000,000 gal. L-D-G., 1-4,000,000 gal. comp. duplex Holly; pumping direct.
Pipe, 65.3 mi. 3 to 18-in. c. i.; hyd. 394 Roe-Stephens; valves, 652; meters, 3404 mostly Neptune & Buffalo; av. daily cons. 3,504,000 gal.; serv. con. 5731; ord. pres. 60 lb.
Rates: meters, min. charge 42c. mo., 10c. 1000 gal. max., 5c. min.

FLUSHING, 938.
MUNICIPAL.
Clerk, N. J. Mann.....Flushing
Engr. P'g. Sta., John Layman..... "
Flint River; no purification.
Pumps, 2-360,000 gal. & 720,000 gal. hor. duplex F. M. 1914 belted to elec. motors, 2 15 & 40-hp. 220 v. 3 ph. 60 cys. F. M. 1914; pumping direct.
Pipe, 4 mi. 4 to 10-in. c. i.; hyd. 31, hose con. 2 ½-in. Crane; valves, 10 r. & l. h. opening Crane; meters, none; av. daily cons. 250,000 gal.; serv. con. 125; ord. pres. 40 to 50 lb.; fire pres. 60 to 80 lb.
Rates: flat, $3 6 mo., bath 50c., closet $1.

FORD, 1,689.
MUNICIPAL.
Vil. Engr., Mason L. Brown,
821 Commerce Bldg.....Detroit
Detroit River. Water bought from Michigan Alkali Co.
Pumps, 1-1,080,000 gal. hor. Deane 1896, 3-720,000 gal. hor. Deane 1896, 2-290,000 gal. hor. steam 1909; pumping direct.
Pipe, 6 mi. 4 to 10-in.; hyd. 43; ord. pres. 65 lb.

FOWLERVILLE, 1,150.
MUNICIPAL.
Vil. Engr., John McCreary.....Fowlerville
Artesian wells, 5 6-in. 352 ft. deep; pumps, 1-1,000,000 gal. duplex Walker 1908; pumping direct & to reservoir, 4,140 gal.; pipe, 2 mi. 4 to 8-in.

FRANKFORT, 1,555.
MUNICIPAL.
Vil. Clerk, C. W. Snider.....Frankfort
Vil. Engr., F. S. Haswell..... "
Wells, one 24 ft. in diam. 26 ft. deep & 20 2½ to 6-in. 27 ft. deep; pumps, 2 duplex 1890 & 1906; pumping direct; pipe, 4 mi. 3 to 8-in. c. i. & wood; hyd. 41; ord. pres. 83 lb.

FREMONT, 2,009.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Mayor, Wm. Sems..... Fremont
Mgr., H. W. Schoolmaster..... "
Engr. P'g. Sta.,
Clarence Woodard..... "
Vil. Engrs., Ramsey & Works,
324 Housman Bldg., Grand Rapids.
Wells, 10 2 to 6-in. 225 to 230 ft. deep; pumps, 2 simplex 1903 & 1913; pumping to standpipe.
Pipe, 3 mi. 2 to 8-in. c. i. & w. i.; hyd. 35; ord. pres. 56 lb.

GAGETOWN, 358.
MUNICIPAL.
Supt., James L. Purdy.....Gagetown
Wells, 16 4-in. 6 to 10 ft. deep; near center distribution.
Pumps driven by gasoline engine, 25-hp. F. M.; pumping to air pressure tanks, 8 x 36 ft.
Pipe, one mi. 4 to 12-in. wood; hyd. 16, hose con. 3-in.; valves, r. h. thd.; av. daily cons. 50,000 gal.; serv. con. 50; ord. pres. 40 lb., fire pres. 75 lb.

GALESBURG, 656.
MUNICIPAL.
Supt., W. J. Smith.....Galesburg
Vil. Clerk, Earl Wilson..... "
Wells, 14 ft. in diam. 20 ft. deep; pumps, 1-130,000 gal. triplex National 1909; pumping to elev. tank.
Pipe, 1.5 mi. 4 to 6-in.; hyd. 31; ord. pres. 65 lb.

GAYLORD, 1,538.
MUNICIPAL.
Vil. Pres.....Gaylord
Supt., Wm. Siever..... "
Well, 6-in. 110 ft. deep; pumps, one 1904, 1-1,440,000 gal. 1904; air compress., 10 x 12-in. 1904; pumping direct; pipe, 3 mi.

GLADSTONE, 4,211.
MUNICIPAL.
Mayor, James H. Murphy.....Gladstone
City Clerk, A. L. Williamson.... "
Supt., G. A. Frogner..... "
City Engr., A. P. Mason.....Gladstone
Little Bay De Noc; chemical, hypochlorite of lime.
Pumps, one comp. duplex Buffalo 1893; pumping direct; pipe, 12 mi. 1 to 12-in.; hyd. 79.

GLADWIN, 980.
MUNICIPAL.
Chmn. Comr., L. D. Smith.....Gladwin
Comr., J. M. Millie..... "
Clerk, Harold Wagie..... "
Engr. P'g. Sta., Geo. Stealey..... "
Cedar River & artesian wells, 2 6-in. 400 ft. deep; near center business section; reservoir, 500,000 gal.
Boilers, 2 tubular 40-hp. ea. 70 lb. MacKinnon 1890; hand stoking; pumps 2-1,000,000 ea. hor. simple F. M. 1911; pumping direct.
Pipe, 2 mi. 6 to 10-in. wood; hyd. 23, hose con. 3-in. Lockport; valves, 10 l. h. opening Detroit; meters, 150 Buffalo; av. daily cons. 70,000 gal. 75%; serv. con. 165; ord. pres. 25 lb., fire pres. 75 lb.
Rates: meter, min. charge $2.25 6 mo. 10,000 gal., 10c. 1000 gal.

GRAND HAVEN, 5,856.
MUNICIPAL.
Mayor, M. Robbins.....Grand Haven
Supt., Robert Moore..... " "
Cons. Engr., G. S. Williams,
Cornwall Bldg.....Ann Arbor
Impounding reservoirs, 2-100,000 gal. & wells, one open & 5 driver 6-in. 18 ft. deep.
Pumps, 1-360,000 gal. Walker steam 1888, 1-720,000 gal. Worth. 1898, 2 centrifugal De Laval 1907, 2 centrifugal Reis-roturbo 1913; pumping direct & to reservoirs, 2-1,000,000 gal.
Pipe, 25 mi. 4 to 16-in.; hyd. 96; ord. pres. 88 lb.

GRAND LEDGE, 2,893.
MUNICIPAL.
Mayor, Orin Kingsley.....Grand Ledge
Chmn. Comr., Ray Divine.... " "
Sec., Harry Towner..... " "
Supt. & Engr. P'g. Sta.,
C. L. Hodge..... " "
Wells, 13 6 & 8-in. 240 to 310 ft. deep; near center business section; reservoirs, 2-200,000 gal.; no purification.
Pumps, 3-192,000 gal. ea. vert. centrifugal Jeanesville 1909 d. con. to elec. motor, 325-hp. ea. 440 v. 3 ph. 60 cys. G. E. 1909; pumping direct and to elev. tank (1909) 100,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 14 mi. 4 to 8-in. c. i.; hyd. 48, hose con. 3-in.; valves, 36 r. h. opening; meters, 650 National; av. daily cons. 192,000 gal 85%; serv. con. 720, ord. pres. 70 to 84 lb., fire pres. same.
Rates: flat, $4 year, bath $2, closet $2; meter, min. charge 50c. mo., 20c. 1000 gal. max., 5c. min.

GRAND RAPIDS, 11,571.

MUNICIPAL. Board of Public Works.
Gen. Mgr. & Sec.
L. D. Cutchuon.....Grand Rapids
Cons. Engr., Geo. W. Fuller
170 Broadway.....New York, N.Y.
Ch. Engr. P'g. Sta.,
Chas. W. Merritt.....Grand Rapids
Supt. Filtration,
Walter A. Sperry..... " "

Grand River; at center distribution; settling and coagulating basins, 2-2,600,000 gal.; mechanical filters, 10-2,500,000 gal.; chemicals, sulphate of alumina & hypochlorite of lime lime.

Boilers, 6 water-tube 360-hp. ea. B. & W.; mechanical stokers, Illinois; pumps, 4-47,000,000 gal., 2 Allis-C., Nordberg & Holly, 1-12,000,000 gal. vert. tri. exp.; pumping direct & to reservoirs, 1-6,500,000 gal. & standpipe (1906) 855,000 gal. iron.

Pipe, 178.3 mi. 4 to over 30-in. c. i.; hyd. 2037, hose con. 2½-in. various; valves 2509 r. h. opening various; meters, 11,322 various; av. daily cons. 14,061,000 gal.; serv. con. 22,638.

HYDRAULIC ENGINEERING COMPANY.
Pres., Gen. Mgr. & Des. Engr.,
James R. Fitzpatrick.....Grand Rapids
V. Pres., D. F. Mulvihill..... " "
Engr. P'g. Sta., Fred Spicer... " "

Underground springs; 2 mi. from center distribution.

Pumps, 2-1,584,000 gal. Deane belt driven from gas engine, 2 100-hp. Minneapolis; pumping direct & to standpipe (1888) steel.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. Michigan; valves, 110 Ludlow & Michigan; meters, 400 National, Thomson & Hersey; av. daily cons. 1,500,000 gal.; serv. con. 1200; ord. pres. 80 to 110 lb.

Rates: flat, $12 year; meters, 6c. 1000 gal.

GRANDVILLE, *800.

MUNICIPAL.
Vil. Clerk, L. E. Taylor.....Grandville

Wells, 3 2 & 6-in. 30 ft. deep; pumps, 1-360,000 gal. duplex Deane 1914; pumping to elev. tank (1914) 35,000 gal. steel.

Pipe, 2 mi. 2 to 6-in.; hyd. 20; ord. pres. 48 lb.

GRAYLING, 1,775.

SALLING-HANSON CO.
Gen. Mgr., H. Hanson.....Grayling
Supt., Frank Ahman..... "

Au Sable River; pumps, 3 F. M., Black & Canton Hughes 1912; pumping direct; pipe, 1.2 mi. 4-in.; hyd. 15.

GREENVILLE, 4,045.

MUNICIPAL. Board of Public Works.
Chmn. T. J. Potter..... Greenville

Artesian wells; ½ mi. from center distribution; no purification.

Boilers, 2 tubular 80-hp. ea., Muskegon; hand stoking; pumps, 2-1,000,000 gal. Deane; pumping direct.

Pipe, 9.8 mi. 4 to 12-in. c. i.; hyd. 80, hose con. 2½-in. Ludlow & Roe-Stephens; valves, 72 r. h. opening Ludlow & Roe-Stephens; av. daily cons. 350,000 gal.; serv. con. 908; ord. pres. 70 to 80 lb., fire pres. 100 to 130 lb.

Rates: meters, 25c. 1000 gal. max., 5c. min.

GROSSE POINT.

SUPPLIED BY THE CITY OF DETROIT.

HAMTRANCK, 3,559.

SUPPLIED BY THE CITY OF DETROIT.

HANCOCK, 8,981.

MUNICIPAL. Board of Public Works.
Chmn. Edwin Henwood.....Hancock
Secy., W. J. Hoffenbacker..... "
Ch. Engr. P'g. Sta., R. Traugmer.. "

Wells; ¾ mi. from center distribution.

Boilers, 2 tubular 100-hp. ea. Lake Superior; hand stoking; pumps, 1-1,000,000 gal. Platt, 1-1,000,000 gal. Allis, & 1-1,000,000-gal. Gordon, one triplex Goulds driven by elec. motor, 2000 v. 3 ph. 60 cys. Westg.; pumping to reservoir, 1,000,000 gal. & elev. tanks, concrete.

Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 241, hose con. 2½-in. Buffalo; valves, r. h. thd.; meters, 200 various; av. daily cons. 1,000,000 gal.; ord. pres. 80 to 120 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $3; meter, min. charge 50c. mo., 25c. 100 cu. ft.

HARBOR BEACH, 1,566.

MUNICIPAL.
Comr., T. O. Mailett.....Harbor Beach

Lake Huron; pumps, 1-576,000 gal. comp. F. M. 1898, 1-360,000 gal. Walker 1906; pumping direct; pipe, 7 mi. 4 to 8-in.; hyd. 68.

HARBOR SPRINGS, 1,805.

MUNICIPAL.
Chmn. Comr., Thos. Kneale, Harbor Springs
Sec., W. D. Wright..... " "
Supt., Clyde Bradfield..... " "
Engr. P'g. Sta, Ed. Bradfield " "

Wells, 9 artesian 3 & 4-in. 78 to 138 ft. deep; ½ mi. from center business section; reservoir, 2-640,000 gal.

Boilers, 3 hor. tubular 125-hp. 110 lb. Erie 1912, 3 hor. tubular 175-hp. ea. 110 lb. Wickes 1912; hand stoking; pumps, 1-1,650,000 gal. hor. cross comp. c. & f. wh. Allis-C. 1912, 2-1,000,000 gal. ea. hor. cross comp. d. act. Canton 1912; pumping to elev. tank (1913) 320,000 gal concrete.

Pipe, 15 mi. 2 to 12-in. c. & w. i.; hyd. 98, hose con. 2½-in. Ludlow & Eddy; valves, 125 r. h. opening Crane, Eddy & Ludlow; meters, 300 various; av. daily cons. 250,000 gal.; serv. con. 750, ord. pres. 60 to 76 lb., fire pres. 76 to 125 lb.

Rates: flat, $6 year, bath $1.50, closet $2; meter, min. charge $7 year 39,000 gal., 25c. 1000 gal. max. 16c. min.

HART, 1,555.
MUNICIPAL.
Vil. Pres., Chas. B. Eddy.....Hart
Chmn, Comrs., J. B. McCallum..... "
Clerk, W. H. McFarland..... "
Supt., J. W. Sargent..... "

Wells, 10 artesian 6-in. 125 ft. deep; near center distribution; impounding reservoir, 275,000 gal.; no purification.

Pumps, 1-1,000,000 gal. Allis-C. d. con. to gasoline engine, 20-hp. International; well pump driven by elec. motors, 25 kw. 2200 v. 3 ph. 60 cys. Allis-C.; elec energy from Stearns Light & Power Co. of Ludington; pumping direct.

Pipe, 3.76 mi. 4 to 12-in; c. i.; hyd 48, hose con. 2½-in. mostly Eddy; meters, 238 Pittsburgh & National; serv. con. 358; ord. pres. 8 to 40 lb., fire pres. 60 lb.

Rates: flat, $3 year; meters, 10c. 1000 gal.

HARTFORD, 1,286.
MUNICIPAL.
Mayor, R. F. Brown.....Hartford
Comr., Chas. Thompson..... "
" M. F. Hinckly..... "
Village Clerk, W. H. Blashfield.... "
Supt., W. F. Galbreath..... "
Cons. Engr., W. H. Gross .....Bangor

Springs, 2-50,000 gal.; one mi. from center business section; pumps driven by elec. motor, 15-hp. 3 ph. 1914.

Rates: meter, 12 min. charge $4 year, 12c. 1000 gal.

HASTINGS, 4,383.
MUNICIPAL.
Supt., E. Tobias.....Hastings

Wells, 18 2 to 6-in. 55 ft. deep; pumps, 1-900,000 gal. tandem comp. 1887, 1-1,500,000 gal. hor. duplex 1898; pumping direct; pipe, 13.5 mi. 4 to 8-in.; hyd. 69; ord. pres. 60 lb.

HIGHLAND PARK, 4,120.
MUNICIPAL.
Village Pres.,
Donald Thompson.....Highland Park
Supt. Wm. G. Patterson.... " "

Lake St. Clair, 12 mi. from center business section; reservoir, 2,000,000 gal.; no purification .

Pumps, 2-12,000,000 gal. hor. centrifugal Manistee 1915 d. con. to elec. motor, 100-hp. ea. 440 v. 3 ph. 60 cys. G. E. 1915; pumping to elev. tank (1914) 250,000 gal. steel Black Iron & Bridge Works.

Pipe, 52 mi. 6 to 30-in. c. i.; hyd. 316, hose con. 4-in. Roe-Stephens; valves, 260 r. h. opening Roe-Stephens; meters, 50 various; av. daily cons. 3,500,000 gal.; serv. con. 4500; ord. pres. 35 to 45 lb., fire pres. same.

Rates: flat, $5.40 year, bath $1, closet $1.60; meter, min. charge $2 quarter 28,000 gal., 7c. 1000 gal.

HILLMAN, 411.
HILLMAN LIGHT & WATER CO.
Prop. Mr. Pelowski.....Hillman

Pump 1-36,000 gal. hor. triplex 1908; wtr. turbines, 2 60-hp. ea. Leffel.

Pipe, one mi. 4-in. c. i. & wood; hyd. 9, hose con. 2½-in. Michigan; ord. pres. 40 to 90 lb., fire pres. 90 to 100 lb.

Rates; flat, 50c. mo., bath 25c., closet 25c.

HILLSDALE, 5,001.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Pres. Bd., M. D. O'Meara.....Hillsdale
Engr. P'g. Sta., G. D. Rankin..... "
City Engr., G. L. Herron..... "

Lake Baw Beese; pumps, 1-2,200,000 gal. hor. cross comp. L-D-G 1906, 1-2,290,000 gal. comp. duplex Worth, 1907.

Pipe, 51 mi. 1 to 16-in.; hyd. 105; ord. pres. 54 lb.

HOLLAND, 10,490.
MUNICIPAL.
Pres. Comrs., E. P. Stephan.....Holland
Comr., Walter Lane..... "
" A. B. Bosman..... "
" Frank Pifer..... "
" J. B. Mulder..... "
Supt., R. B. Champion..... "

Wells, 30; no purification.

Boilers, 4 water-tube 300-hp. Sterling; pumps, 2-1,500,000 gal. centrifugal American, 1-1,500,000 gal. Platt; pumping to standpipe, 247,000 gal. steel.

Pipe, 29.32 mi. 2 to 14-in.; hyd. 292; valves, 358 Bourbon, Eddy, Darling & Ludlow; av. daily cons. 962,000 gal.; serv. con. 2269; ord. pres. 40 to 60 lb.

Rates: all meter, 10c. 100 cu. ft. max.. 4c. min.

HOLLY, 1,537.
MUNICIPAL.
Vil. Pres., W. M. Smith.....Holly

Wells, 10 6 & 8-in. 180 ft. deep; pumps, 2-108,000 gal. ea. Walker 1911; pumping direct; pipe, 4 mi. 4 to 8-in.; hyd. 28.

HOMER, 1,008.
MUNICIPAL.
Vil. Pres., R. C. Smith.....Homer
Supt., Peter Sweet..... "

Wells, 2 6-in. 74 ft. deep; pumps, 1-432,000 gal. F. M. 1911; pumping to elev. tank (1911) 50,000 gal.

Pipe, 4 mi. 4 to 10-in.; hyd. 29; ord. pres. 52 lb.

HOUGHTON, 5,133.
MUNICIPAL.
Vil. Engr., H. W. Fesing.....Houghton

Springs; pumps, 2-500,000 gal. ea. triplex Goulds 1905 driven by elec. motor; pumping direct; pipe, 18 mi. 1 to 10-in. c. i.; hyd. 115; ord. pres. 78 lb.

HOWARD CITY, 1,046.
MUNICIPAL.
City Pres., J. H. Prout.....Howard City

Trustee, W. H. Collins.....Howard City
" G. Fulass..... " "
" B. C. Critenden..... " "
Supt. & Engr. P'g. Sta.,
T. Rice..... " "

Tamarack River; boilers, 2 tub. 40-hp. ea. Walker; hand stoking; pumps, 2-750,000 gal. Walker; pumping direct.

Pipe, 4 mi. 4 to 12-in.; hyd. 36, hose con. 2½-in. Ludlow & Roe-Stephens; valves, 18 r. h. thd. Ludlow; av. daily cons. 150,000 gal.; serv. con. 210; ord. pres. 30 to 40 lb., fire pres. 80 to 110 lb.

HOWELL, 2,338.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Chmn. Comr., F. S. Platt.....Howell
Comr., A. F. Peavy..... "
" G. H. Bowaman..... "
Sec., L. R. Melendy..... "
Supt., O. M. Russell..... "
Engr. P'g. Sta., Herbert Cook..... "

Wells, 10 6-in.; near center distribution.

Pumps, 1-1,500,000 gal. Walker 1894; pumping direct.

Hyd. 68; hose cons. 3-in.; meters, 40 Hersey & Buffalo; av. daily cons. 200,000 gal.; serv. con. 660; ord. pres. 40 to 60 lb., fire pres. 80 to 110 lb.

Rates: flat, $5 year; bath $2, closet $2; meter, min. charge $5 year, 25c. 1000 gal. max., 6c. min.

HUBBELL, 1,059.

MUNICIPAL.

Vil. Pres., E. Gillet.....Hubbell

Wells, 9 2-in. 75 ft. deep; pumps, 1-144,000 gal. Deming 1909 driven by elec. motor; pumping direct; pipe, 2 mi. 2 to 6-in.; hyd. 14; ord. pres. 75 lb.

HUDSON, 2,178.

MUNICIPAL.

City Clerk, Fred. P. George.....Hudson
Engr. P'g. Sta., John Gloman..... "

Wells, 7 8-in. 72 ft. deep; near center business section; reservoir, 2,000,000 gal.

Boilers, 2 tubular 75-hp. ea. 80 lb. Lansing 1893; hand stoking; pumps, 2-1,000,000 gal. Hughes 1893; pumping direct.

Pipe, 5 mi. 4 to 16-in. c. i.; hyd. 80, hose con. 3-in.; fire pres. 80 to 100 lb.

Rates: flat, $4 year, bath $4, closet $2.50.

IONIA, 5,030.

MUNICIPAL. Board of Public Works.

Mbr. Richard Dunsmore.....Ionia
" Chas. F. Schnell..... "
Supt., Chas. Girard..... "

Wells, 7 open & 9 artesian 6-in. 300-ft. deep; ½ mi. from center distribution; reservoirs, 300,000 gal.; no purification.

Boilers, 2 locomotive 50-hp. McGregor; hand stoking; pumps, 3-1,500,000 gal. Worth. & Platt, & one centrifugal d. con. to elec. motors, 30 kw. 220 v. 3 ph. 60 cys.; elec. energy from Ionia Water Power & Elec. Co.; pumping direct.

Pipe, 17 mi. 4 to 12-in. c. i. & wood; hyd. 136, hose con. 2½-in. various; valves, 100 r. & l. h. thd. Roe-Stephens, Clow & R. D. W.; meters, 120 Neptune; serv. con. 1750; ord. pres. 52.5 to 80 lb., fire pres. same.

Rates: flat, $4 year, bath $2, closets $4; meter, 25c. 1000 gal. max., 9c. min.

IRON MOUNTAIN, 9,268.

IRON MOUNTAIN WATER WORKS. (Privately owned).

Pres., E. F. Brown.....Iron Mountain
V. Pres., D. L. Quirk, Jr.....Ypsilanti
Sec. & Treas.,
R. C. Browning ..... Iron Mountain
Gen. Mgr. & Pur. Agt.,
E. H. Croll ..... " "
Cons. Engr.,
G. H. Benzenburg.....Milwaukee, Wis.
Engr. P'g. Sta.,
A. Michelson.....Iron Mountain

Sixth Level of Pewabic Mine & wells, 9 6-in. 50 to 128 ft. deep; one mi. from center business section; reservoir, 1-80,000 gal.; no purification.

Boilers, 2 tubular 100-hp. ea. 90 lb. 1892; pumps, 2-2,000,000 gal. comp. L-D-G 1892, 1,750,000 gal. comp. duplex Prescott 1908; air lift & air compressor, 500 cu. ft. Ingersoll-Rand driven by steam engine, pumping to reservoir, 1-680,000 gal. and elev. tank (1892) 500,000 gal. steel Robert Bonnett & Son.

Pipe, 19 mi. 6 to 16-in. c. i.; hyd. 176, hose con. 2½-in. Chapman; valves, 176 l. h. opening Chapman; meters, 750 National; av. daily cons. 500,000 gal. 60%; serv. con. 1300; ord. pres. 90 to 120 lb., fire pres. same.

Rates: flat, $5.50 quarter, bath $4, closet $4; meter, min. charge 42c. mo. 1400 gal., 30c. 1000 gal.

IRON RIVER, 2,450.

MUNICIPAL.

Vil. Engr., L. Whiting.....Iron River

Well, open 12 x 12 ft. 25 ft. deep; pumps, 2-vert. triplex Prescott, one Cameron, pumping direct; pipe, 5 mi. 1 to 14-in.; hyd. 56; ord. pres. 43 lb.

IRONWOOD, 1,282.

IRONWOOD WATERWORKS CO.

Supt., F. R. Blackhurst.....Ironwood

Montreal River; settling basin, 144,000 gal.; mech. filters, 3-12x18 ft. Pittsburgh; chemical, sulphate of alumina.

Pumps, 1-1,500,000 gal. Prescott 1910 driven by elec. motor, Allis-C. 1910; pumping direct & to standpipe, 1-264,000 gal.

Pipe, 19 mi. 1 to 18-in.; hyd. 171.

ISHPEMING, 12,448.

MUNICIPAL.

Supt., P. H. Devine.....Ishpeming

Lakes Miller, Ogden & Tilden; 1¾ mi. from center distribution; chemical, copper sulphate.

Buy steam from Oliver Iron Mining Co.; pumps, 2-5,500,000 gal. Prescott & Worth, pumping direct.

Pipe, 27 mi. 4 to 14-in. wood; hyd. 141, hose con. 2½-in.; valves, r. h. thd. Roe-Stephens; meters, 1617 Neptune, Pittsburgh, National & Worth.; av. daily cons. 1,200,000 gal.; serv. con. 1635; ord. pres. 42 lb., fire pres. 85 lb.

Rates: flat, $4 year, bath $1.50, closet $1.50; meters, min. charge $2 6 mo., 10c. 1000 gal. max., 4c. min.

ITHACA, 1,876.

MUNICIPAL.

Village Pres., C. E. Webster.....Ithaca
Sec., Miles A. Nelson..... "
Supt., Harry E. Churchill..... "

Wells, 3 8-in. 600 ft. deep; near center business section.

Boilers, 2 hor. tubular 150-hp. 110 lb. Brownell 1900 & 1913; pumps, 2 Worth.; air compressors, 2 340 & 550 cu. ft. Ingersoll-Rand 1900 & 1913 driven by steam engine, 150-hp. Straight; pumping to reservoir.

Hyd. 40, hose con. 4-in. Bourbon; valves, 10 l. h. opening; meters, 400 Buffalo; av. daily cons. 100,000 gal.

Rates: meter, min. charge $1.40 quarter 3,500 gal., 40c. 1000 gal. max., 16c. min.

JACKSON, 31,433.

MUNICIPAL.

Supt., J. F. Harrison.....Jackson

Wells, 14, 225 to 400 ft. deep; ¾ mi. from center distribution; no purification.

Boilers, 4 tubular; pumps, 1-11,000,000 gal. hor. comp. Gaskell, 1-6000,000 gal. hor. comp. Holly, 1-8,000,000, gal. hor. comp. Snow; pumping to reservoir, 100,000 gal.

Pipe, 97 mi. 4 to 24 in. c. i.; hyd. 808; meters 7135; av. daily cons. 2,922,000 gal.; serv. con. 7135; ord. pres. 60 lb.

Rates: meter, min. charge 50c. mo., 90c. 1000 cu. ft.

JONESVILLE, 1,396.

MUNICIPAL.

Village Pres., Chas. G. White.....Jonesville
Chmn. Comr., D. J. McKerun... "
Vil. Clerk, E. B. Gregory..... "
Supt., Geo. S. Caldwell..... "
Engr. P'g. Sta., H. Bergier..... "

Wells, 3 6 to 12-in. 55 to 119 ft. deep; near center business section; no purification.

Boilers, 2 tubular 80-hp. ea. 95 lb. Mansfield 1908, one tubular 175-hp. 125 lb. Wickes 1914; pumps, 2 comp. duplex d. act. Platt; pumping direct and to standpipe (1908) 120,000 gal.

Pipe, 4 mi. 4 to 10-in. c. i.; hyd. 43, hose con. 2½-in. R. D. W.; valves 20 l. h. opening; meters, 6 Hersey; serv. con. 400; ord. pres. 55 to 72 lb., fire pres. 55 to 85 lb.

Rates: flat, $4 year, bath, $2, closet $2; meter, 12c. 1000 gal. max., 5c. min.

KALAMAZOO, 39,437.

MUNICIPAL.

Comr. Geo. Houston.....Kalamazoo
Supt. H. A. Watson..... "

Wells, 22, 70 to 130 ft. deep, 2 open 30 ft. deep; no purification.

Boilers, 4 return tubular 125-hp. ea. 2 Cleveland and 2 Kewanee; pumps, 2-3,000,000 gal. ea. vert. comp. Holly, 1-1,080,000, 1-1,-440,000 gal. electric driven American; pumping direct and to standpipe, 1,325,000 gal. steel and brick.

Pipe, 85 mi. 4 to 24-in. c. i.; hyd. 739 R. D. W. and Holly; 1710 Chapman & Eddy, Ludlow, Roe-Stephens & R. D. W.; meters, 7110 various; av. daily cons. 2,280,000; serv. con. 7049; ord. pres. 55 lb.

Rates: flat, $3 year, $1 1000 cu. ft. max., 60c. min.

KALKASKA, 1,415.

MUNICIPAL.

Vil. Clerk, A. C. Beedy.....Kalkaska

Bordman River; shallow wells for drinking purposes; hyd. 31.

KINGSLEY, 497.

MUNICIPAL.

Vil. Pres., C. E. Moody.....Kingsley
Supt., Andrew Starr..... "

Miller Creek; pumps, 1-216,000 gal. triplex Deming 1905; pumping direct & to standpipe (1905) 36,500 gal.

Pipe, 1.2 mi. 4 & 6-in.; hyd. 18; ord. pres. 43 lb.

KINGSTON, *350.

MUNICIPAL.

Vil. Pres., Albert Peter.....Kingston
Vil. Clerk, F. A. Maynard..... "

Wells, 3-in. 213 ft. deep; pump, one hor. Myers 1913 driven by elec. motor; pumping direct & to elev. tank.

Pipe, 0.5 mi. 3 & 4-in.; hyd. 5; ord. pres. 29 lb.

L'ANSE, 708.

MUNICIPAL.

Chmn. Comr., Mr. Rambud.....L'Anse
Comr., Henry Johnston..... "
" Harris Smith..... "
Sec., Peter Sands..... "
Supt. F. H. Monson..... "

Spring; 1.5 mi. from center business section; reservoir, 1,000,000 gal.; no purification.

Gravity distribution; pipe, 3 mi. 4 to 10-in. c. i.; hyd. 30, hose con. 2-in. Galvin & Eddy; valves, 20 r. & l. h. opening; serv. con. 150; ord. pres. 100 lb., fire pres. same.

Rates: flat, $1.50 quarter, bath $3, closet $2.50.

LAKE CITY, 740.

LAKE CITY ELECTRIC LIGHT & WATER Co.

Supt., Chas. L. Ostrander.....Lake City
Engr. P'g. Sta., Henry Beckner.. " "

Lake Missaukee; near center dist ibution; settling basins, 5x7 ft.

Boiler fire-tube 110-hp. Hayes; pumps, 2; pumping direct.

Pipe, 1.5 mi. 4 to 12-in. wood; hyd. 13, hose con. 3-in.; serv. con. 100; ord. pres. 30 to 50 lb., fire pres. 80 to 100 lb.

Rates: flat, $10 year.

LAKE ODESSA, 1,222.

MUNICIPAL.

Vil. Pres., Edmund Shellham Lake Odessa
City Engr., Chester Fox " "

Wells, 4 6-in. 42 & 48 ft. deep; pumps, 2-1,440,000 gal. L-D-G 1899; pumping direct.

Pipe, 6 mi. 4 to 8-in.; hyd. 42; ord. pres. 27 lb.

LAKEVIEW, 954.

MUNICIPAL.

Supt., LeRoy Stebbins .....Lakeview

Tamarck Lake; ¼ mi. from business section.

Boilers, one hor. 60-hp. 90 lb., one vert. 30-hp. 90 lb.; pump, one hor. comp. Marsh 1908; steam engine, 15-hp. Atlas & 60-hp. Lansing; pumping direct.

Pipe, 2 mi. c. i.; hyd. 30, hose, con. 4-in.

Rates: flat, $6 year, bath & closet $12.

LANSING, 31,229.

MUNICIPAL.

Supt., G. G. Crane..... Lansing
Engr. P'g. Sta., C. A. Cable. . . . "

Wells, 33-6 to 20-in. 400 ft. deep; no purification.

Boilers, 6 vert. water-tube 400 hp. Wickes, 3 Scotch marine 300-hp. ea. Freeman; pumps, 1-5,000,000 gal. steam Holly, 1-3,000,000 gal elec. driven centrifugal Allberger, 1-2,000,000 gal. elec. driven Goulds, 1-1,500,000 gal. elec. driven Goulds, 1 2,000,000 gal. elec. driven F. M., 1-3,000,000 gal. elec. driven centrifugal Allis-C., 1-1,000,000 gal. elec. driven American; elec. motors, 650 kw. 2300 v. 3 ph. 60 cys. G. E. & Allis-C.; elec. energy from city electric plant; pumping to standpipe (1885) steel.

Pipe, 82 mi. c. i.; hyd. 485, hose con. 2½ & 4-in. mostly Ludlow; valves, 800 r. & l. h. thd. Pratt & Cady & Ludlow; meters, 6200 National & Gamon; av. daily cons. 6,000,000 gal.; ord. pres. 70 lb., fire pres. same.

Rates: flat, min. $1 year; meters, 40c. 1000 gal. max., 5c. min.

LAPEER, 3,946.

MUNICIPAL.

City Pres., F. D. Noyer. . . . Lapeer
Sec., J. Bidwell . . . "
Supt. & Pur. Agt., B. Kellogg . . "

Wells, 5 artesian 8-in. 200 ft. deep; ½ mi. from center business section.

Boilers, 2 100 hp 100 lb. Indianapolis 1913; pumps, 2 1,500,000 gal. hor. c. & f. wh. Canton 1904 & L-D-G 1907, 1 2,000,000 gal. hor. duplex c. & f. wh. L-D-G 1913, 1 300,000 gal. hor. duplex c. & f. wh. Walker 1892.

Pipe, 22 mi 4 to 12 in. c. i; hyd. 118, hose con 2½ in Ludlow; valves, 140 r. & l. h opening Clow; meters, 35 National; av. daily cons 700,000 gal; serv. con 850, ord. pres 50 lb., fire pres. 100 lb.

Rates: flat, $9 year.

LAURIUM, 8,537.

MUNICIPAL.

Comr., R. A. Vivian. . Laurium

Lake Superior. Buy water from Calumet & Hecla Mining Co.

Pump, 1-4,320,000 gal. centrifugal 1908 driven by elec. motor; pumping direct & to standpipe, 503,000 gal.; pipe, 10 mi. 1 to 6-in.

LAWRENCE, 663.

MUNICIPAL.

Supt., H. P. Jennings..... ....Lawrence
Vil. Clerk, S. M. Hest. . . . . "

Wells, 3 tubular 6-in. 75-ft. deep; in center business section.

Pumps, 1-150,000 gal. vert. triplex belted to oil engine, 25-hp. F. M. 1904; pumping to reservoirs, 30,000 gal.

Hyd. 21, hose con. 2½-in.; valves, 8 r. h. thd. Crane; av. daily cons. 40,000 gal. 50%; serv. con. 185; ord. pres. 50 lb., fire pres. 80 lb.

Rates; flat, $4 year, bath $2.50, closet $1.50; meters, min. charge $4 year, 20,000 gal. 20c. 1000 gal. max., 10c. min.

LAWTON, 1,042.

MUNICIPAL.

Comr., J. L. Hall. . . . .Lawton
" J. F. Boyer. . "

Wells, 3 6-in. 45 to 103 ft. deep; pumps, one triplex 1907; pumping to elev. tanks, 2; hyd. 16; ord. pres. 30 to 75 lb.

LESLIE, 1,032.

MUNICIPAL.

Comr., Geo. W. Leach . . Leslie

Wells, 2 6-in. 187 ft. deep; pumps, 2 288,000 gal. centrifugal 1910-11 driven by elec. motors; pumping direct & to standpipe.

Pipe, 4 mi. 4 to 8-in.; hyd. 47; ord. pres. 30 lb.

LOWELL, 1,761.

GRAND RAPIDS EDISON CO. (Controlled by Commonwealth, Power Railway & Light Co.)

Supt., H. J. Maynard . Lowell

Meters, 14; serv. con. 344.

LUDINGTON, 9,132.

MUNICIPAL.

Pres. Bd. Pub. Wks.,
James Foley. . Ludington
Supt. & Engr. P'g. Sta.,
H. L. Williams. . "

Lake Michigan & wells, 1-10 ft. in diam. 20 ft. deep; 1 5 mi. from center distribution, chemical, hypochlorite of lime.

Boilers, 2 hor. tubular 80 hp. Davier; hand stoking; pumps, 2 5,000,000 gal. Holly; pumping direct.

Pipe, 23 mi. 4 to 12 in. c. i.; hyd. 225, hose con 2½ in. Holly & Roe-Stephens; valves, 60 r. h thd Holly & Roe-Stephens; meters, 1500 Thomson, National, Buffalo & Badger; av daily cons. 1,250,000 gal; serv con 1800; ord pres. 40 to 50 lb., fire pres. 80 to 125 lb.

Rates: flat, $6 year; meters, 10c. 1000 gal.

LYONS, 611.
MUNICIPAL.
Vil. Pres., E. S. Fuller.....Lyons
This system takes supply from Grand River for fire protection only; hyd. 10.

MACKINAC ISLAND, 714.
MUNICIPAL WATER LIGHT & POWER CO.
Pres., D. D. Artken.....Flint
V. Pres., A. J. Doherty.....Clare
Sec. Treas., Gen. Mgr. &
Pur. Agt., A. J. Doherty, Jr.,
Mackinac Island
Supt., S. M. Harvey..... " "
Lake Huron, one mi. from center business section; reservoir, 2,000,000 gal.; settling basins, 48,000,000 gal.
Boilers, 3 hor. 100-hp. 105 lb. MacKinnon 1901; hand stoking; pumps, 2-1,000,000 gal. hor. comp. d. act. L-D-G. 1901; pumping to reservoir, above.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 3½-in. Roe-Stephens; valves, 27 r. h. opening Crane; meters, 4 Thomson; av. daily cons. 1,000,000 gal.; ord. pres. 80 to 126 lb., fire pres. same.
Rates: flat, $8 year, bath $4, closet $4; meter, 20c. 1000 gal. max., 10c. min.

MANCELONA, 1,200.
MUNICIPAL.
Vil. Clerk, E. A. Line.....Mancelona
Wells, 9 tubular 6-in. 60 to 65 ft. deep; pumps, 2-1,050,000 gal. ea. duplex Blake 1892; pumping direct.
Pipe, 6 mi. 2 to 8-in.; hyd. 32; ord. pres. 28 lb.

MANISTEE, 12,381.
MUNICIPAL.
Mayor, F. A. Mitchell.....Manistee
City Mgr., Chas. E. Ruger..... "
" Clerk, Harry Bickell..... "
Supt., F. W. Collins..... "
Wells, 4 open 30 to 45 ft. in diam. 45 ft. deep; near center distribution.
Boilers, 2 hor. tubular 75-hp. ea. Manistee; hand stoking; pumps, 2-2,000,000 & 4,000,000 gal. Holly d. con. to elec. motors, 400 kw. 400 v. 3 ph. 30 cys. Westg.; pumping to elev. tanks (1911) 650,000 gal. steel.
Pipe, 28.7 mi. 4 to 16-in. c. i.; hyd. 210, hose con. 2½-in. Holly & R. D. W.; valves 286 r. h. thd. Eddy; meters, 298 various; av. daily cons. 1,029,000 gal.; serv. con. 2394; ord. pres. 59 lb., fire pres. 95 to 100 lb.
Rates: flat, $4 year; meter, above min. charge 15.5c. 1000 gal.

MANISTIQUE, 4,722.
MUNICIPAL.
Mayor, W. L. Pattison.....Manistique
City Engr., Harry Erickson..... "
Indian River; pumps, 1-720,000 gal. triplex Goulds 1906, 1-1,440,000 gal. triplex Goulds 1908; pumping direct & to elev. tank, 50,000 gal.
Pipe, 23 mi. 4 to 8-in.; hyd. 73; ord. pres. 54 lb.

MANTON, 1,069.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Pres., John Caldwell.....Manton
Sec., H. H. Radenbaugh..... "
Treas., Chas. Walstrum..... "
Supt., F. A. McClellan..... "
Engr. P'g. Sta., M. Chivis..... "
Wells, 3 6 & 8-in. 53 ft. deep; pumps, 1-316,000 gal. Walker 1894; pumping direct.
Pipe, 2.8 mi. 4 to 8-in.; hyd. 27; ord. pres. 32.5 lb.

MARCELLUS, 1,037.
MUNICIPAL.
Well, 18 ft. in diam. 33 ft. deep; pumps, 2-18,000 gal. duplex Deane 1894 & 1901; pumping direct.
Pipe, 2 mi. 4 to 8-in.; hyd. 41, ord. pres. 52 lb.

MARINE CITY, 3,770.
MUNICIPAL.
Vil. Pres., J. A. Conley.....Marine City
St. Clair River; chemical., hypochlorite of lime.
Pumps, 1-3,000,000 gal. comp. duplex 1903, 1-2,500,000 gal. cross-comp. 1913; pumping direct.
Pipe, 11 mi. 2 to 8-in.; hyd. 71; ord. pres. 50 lb.

MARLETTE, 1,062.
MUNICIPAL.
Pres. Comr., D. C. Merrell.....Marlette
Comr., A. D. Colling..... "
" O. A. Tuck..... "
Sec., Frank White..... "
Supt. & Engr. P'g. Sta.,
John Forbes..... "
Wells, 3 driven 4 & 8-in. 200 to 300 ft. deep; near business center; no purification.
Boilers, 2 tubular 125-hp. 100 to 140 lb. Frost 1912; hand stoking; pumps 2-1,000,000 gal. hor. duplex L-G-D. 1891; air compressor, 1000 cu. ft. American 1913 driven by steam; pumping direct and to reservoir, 150,000 gal.
Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 36, hose con. 2½-in.; valves, 20 r.h. opening; meters, 10; av. daily cons. 80,000 gal. 60%; serv. con. 375; ord. pres. 40 lb., fire pres. 80 to 100 lb.s.
Rates: flat $4 year, bath $2, closet $1.; meter, min. charge $1 quarter, 20c. 1000 gal.

MARQUETTE, 11,503.
MUNICIPAL.
Comr., Jacob P. Werner.....Marquette
Supt., Wm. J. Johnston..... "
Pur. Agt., Jos. F. Anderson..... "
Lake Superior; no purification.
Boilers, 3 return tubalar; pumps, 1-3,000,-000 gal. steam Holly 1-3,000,000 gal. Worth 3-2,000,000 gal., 3,000,000 gal., & 5,500,000 gal. centrifugal Platt; pumping direct.
Pipe, 25 mi. 4 to 20-in. c. i.; hyd. 216 Galvin & Eddy; valves, 333; meters, 1063

Neptune, Hersey, Pittsburgh, Worth. & National; av. daily cons. 2,300,000 gal.; serv. con. 2175; ord. pres. 110 lb.

Rates: flat, $8 year, bath $5, closet $3; meters, min. charge $1.25 quarter 7000 cu. ft., 10c. 100 cu ft. max., 3c. min.

MARSHALL, 4,336.

MUNICIPAL.

Comr., C. Sinclair.....Marshall
" R. F. Grant..... "
" F. S. Deuel..... "
Supt., Philip S. Joy..... "

Wells, 7 tubular 4-in. 75 ft. deep; reservoir, concrete; no purification.

Boilers, 2 tubular 75-hp. ea. Erie; hand stoking; pumps, 2-1,000,000 gal. Worth. 1-2,000,000 gal. Deane belted to elec. motor, 75 kw. 2300 v. 3 ph. 60 cys. G. E.; elec., energy from city power plant; pumping to standpipe (1889) 335,000 gal. steel.

Pipe, 13.25 mi. 4 to 12-in. c. i.; hyd. 112, hose con. 2½-in. Ludlow & R. D. W.; valves, r. h. thd. mostly Eddy; meters, 420 National, Pittsburgh, Hersey & Gamon; av. daily cons. 350,000 gal.; serv. con. 812; ord. pres. 50 to 65 lb., fire pres. 100 lb.

Rates: flat, $4 year, bath $2, closet $3; meters, 20c. 1000 gal. max., 10c. min.

MASON, 1,742.

MUNICIPAL WATER & ELECTRIC LIGHT PLANT.

Chmn. Comr., J. J. Kellog.....Mason
Comr., L. B. McArthur..... "
" F. A. Lester..... "
Sec. & Pur. Agt., G. L. Peck..... "
Supt., R. S. Newton..... "

Wells, 5 artesian 6-in. 157 to 175 ft. deep; near center business section.

Boilers, one wtr. tube 200-hp. 200 lb. McNaull 1914, 2 tubular 65-hp. ea. 100 lb. Lansing 1892; mechanical stoker, Jones; pumps, 2-500,000 gal. hor. comp. d. act. Hughes 1892; steam engine, 100 & 160-hp. comp. automatic Ide 1892 & 1913; pumping to standpipe (1892) 135,000 gal.

Hyd. 67, hose con. 2½-in. Galvin; meters, 5 National; av. daily cons. 85,000 gal.; serv. con. 407; ord. pres. 50 to 70 lb., fire pres. 70 lb.

Rates: flat, $4 six mo., bath $2.50, closet $2.50; meter, 40c. 1000 gal. max., 10c. min.

MAYVILLE, 687.

MUNICIPAL LIGHT & WATER PLANT.

Vil. Pres., Wm. Welke.....Mayville
Sec., Geo. H. Hamilton..... "
Treas., Walter Hunt..... "
Engr. P'g. Sta., Leslie Stuart..... "

Well, 4-in. 450 ft. deep; pumps, 1-210,000 gal. comp. duplex 1905; air compress., 1905; pumping direct & to reservoir, 10,000 gal.

Pipe, 2.3 mi. 2 to 6-in.; hyd. 14.

MENOMINEE, 10,507.

MENOMINEE WATER CO.

Gen. Mgr., J. J. Campbell.....Menominee

Green Bay; chemical, hypochlorite of lime.

Pumps, 1-2,500,000 gal. 1885, 1-1,500,000 gal. 1891, 1-1,500,000 gal. ea. 1910, 1-2,106,000 gal. 1910; pumping direct.

Pipe, 24 mi. 4 to 16-in.; hyd. 302; ord. pres. 43 lb.

MILAN, 1,355.

MUNICIPAL.

Chmn. Comr., W. H. Hack.....Milan
Comr., E. W. Blackmer..... "
" W. J. Laskey..... "
Vil. Clerk, Jesse Button..... "
Supt. & Engr. P'g. Sta., W. O. Culver "
Cons. Engr., W. J. Sherman Co.....Toledo

Wells, 3 artesian 10-in. 28 to 42 ft. deep; near center business section.

Pumps, 2-720,000 gal. vert. triplex Platt 1908 d. con. to gasoline engine, 2 50-hp. ea. Foos. 1908; pumping to standpipe (1908) 75,000 gal.

Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 39, hose con. 2½-in. Ludlow; valves, 35 l. h. opening Ludlow; meters, 357; serv. con. 383; ord. pres. 45 lb. fire pres. 125 lb.

Rates: meters, min. charge $1.50 quarter 10,000 gal., 15c. 1000 gal.

MILFORD, 973.

MUNICIPAL.

Supt., C. C. Sherk.....Milford

Wells, 5 artesian 6-in. 40 to 80 ft. deep; near center distribution.

Boilers, 2 return tubular 125-hp. ea. Ryan; hand stoking; pumps, 2-720,000 gal. ea. steam duplex Worth., 1-720,000 gal. elec. Jeansville, 1-216,000 gal. triplex Deane; elec. motors, 60 kw. 220 v. 3 ph. 60 cys. G. E.; elec. energy from Milford Elec. Co.; pumping to standpipe (1914) 150,000 gal. steel.

Pipe, 5 mi. 4 to 12-in c. & w. i.; hyd. 31, hose con. 2½ in. Roe Stephens; valves, 35 r. h. thd. Roe Stephens; meters, none; av. daily cons. 75,000 gal.; serv. con. 238; ord. pres. 55 to 70 lb., fire pres. 80 to 120 lb.

MILLINGTON, 623.

MUNICIPAL.

Vil. Clerk, J. H. Eggart.....Millington
Supt. & Engr. P'g. Sta.,
J. E. Ostrander..... "

Wells, 4 tubular 4 & 8-in. 180 to 377 ft. deep; near center business section; reservoir, 800,000 gal.; no purification.

Pumps, 1-423,000 gal. vert. triplex; oil & gasoline engine, 625-hp. ea. F. M.; pumping to reservoir & tank.

Pipe, 1.5 mi. 4 & 6-in. c. i. & wood; hyd. 13, hose con. 2½-in. Kupferle; valves, 6 r. h. opening Crane; meters, 75 Buffalo, av. daily cons. 396,000 gal.; serv. con. 106; ord. pres. 40 lb., fire pres. 90 lb.

Rates: flat, 50c. mo.; meter, min. charge 50c. mo., 15c. 1000 gal.

MIO, 200.

MUNICIPAL.

Clerk, John Molan.....Mio

Springs; ½ mi. from center business section; slow sand filters, 1300 gal.

MONROE, 6,893.
MONROE WATER CO.
Pres., Geo. Spalding.....Monroe
Sec. & Treas., W. C. Sterling..... "
Supt., J. C. Sterling..... "
Engr. P'g. Sta., Wm. H. Tripp..... "
Lake Erie; 4 mi. from center distribution; reservoir, 500,000 gal.; no purification.
Boilers, 2 fire-tube 125-hp. Penna.; hand stoking; pumps, 1-2,500,000 gal. L-D-G.; pumping direct.
Pipe, 20.25 mi. 4 to 16-in. c. i.; hyd. 170, hose con. 2½-in. Ludlow; valves, 107 various; meters, 1270 various; av. daily cons. 1,000,000 gal.; serv. con. 2280; ord. pres. 45 to 60 lb., fire pres. 110 lb.
Rates; flat, min. $5 year; meters, 20c. 1000 gal. max., 5c. min.

MONTAGUE, 942.
MUNICIPAL.
Vil. Pres., Geo. H. Smith.....Montague
Mill Creek; impounding reservoir, 350,000 gal.; pumps, 1-272,000 Walker 1895; pumping direct.
Pipe, 3 mi. 4 & 6-in.; hyd. 22; ord. pres. 100 lb.

MORENCI, 1,516.
MUNICIPAL.
Mayor, J. G. Meister.....Morenci
Comr., A. C. Thompson..... "
" R. A. Paul..... "
City Clerk, H. T. Bauman..... "
Wells, 4 artesian 4-in. 160 ft. deep; ¼ mi. from center business section.
Pump, one hor. comp. 1912; pumping direct & to elev. tank (1910).
Pipe, 4.5 mi. 4 to 8-in. c. i.; meters, 155 Hersey, Thomson & Buffalo; ord. pres. 20 to 60 lb., fire pres. 60 to 120 lb.
Rates: meter, min. charge $1 quarter, 20c. 1000 gal.

MOUNT CLEMENS, 7,707.
MUNICIPAL. Board of Public Works.
Mbr., Fred Schoot ..... Mt. Clemens
" John Munley ..... " "
" Chas. Meldrum ..... " "
" Wm. McSweeney ..... " "
" Frank Phillips ..... " "
Supt. & Ch. Engr. P'g. Sta.,
A. Keils..... " "
Wells, 45 tubular 6 to 10-in. 28 to 50 ft. deep; near center distribution.
Boilers, 2 return tubular 125-hp. Springer; hand stoking; pumps, 4-4,000,000 gal. F. M. & Worth.; pumping direct.
Pipe, 24 mi. 4 to 12-in. c. i.; hyd. 208, hose con. 2½-in. Ludlow & Roe-Stephens; valves, 392 r. h. thd. Ludlow & Roe-Stephens; meters, 1730 Worth. & Neptune; av. daily cons. 800,000 gal.; serv. con. 1728; ord. pres. 60 lb., fire pres. 80 lb.
Rates: meters, 11c. 100 cu. ft. max., 6c. min.

MUNISING, 2,952.
MUNICIPAL.
Comr., Herman Johnson.....Munising
Vil. Pres., Thomas Wyman.....Munsinng
Town Clerk, Thomas Hannah.... "
Engr. P'g. Sta., Fred Raymond... "
Lake Superior; 3 mi. from center business section.
Pumps, 1-500,000 gal. hor. centrifugal Platt 1914, 2-1,000,000 gal. hor. centrifugal Platt 1914 d. con. to elec. motor, one 50-hp. & 2 100-hp. ea. 2200 v. 3 ph. 60 cys. G. E. 1914; elec. energy from Electric Light & Power Co.; pumping to elev. tank.
Av. daily cons. 300,000 gal.; ord. pres. 108 to 118 lb., fire pres. same.
Rates: flat, $7 year.

MUSKEGON, 24,062.
MUNICIPAL.
Mayor, J. H. Moore.....Muskegon
Comr., Wm. Thompson..... "
" Fred Hanson..... "
" Peter Kemp..... "
Supt., C. H. Potter..... "
Cons. Engrs.,
The W. J. Sherman Co.....Toledo, Ohio
Engr. P'g. Sta., A. A. Green.....Muskegon
Lake Michigan; 5 mi. from center distribution; no purification.
Boilers, 3 tubular 175-hp., one water-tube 275-hp.; mechanical stoking, 5 Jones; pumps, 2-3,000,000 gal. Holly; 1-2,000,000 gal. Platt; pumping direct.
Pipe, 75 mi. 2 to 24-in.; hyd. 602, hose con. 2½-in. Ludlow; valves, 645 various; meters, 2600 mostly Hersey; av. daily cons. 4,000,000 gal.; serv. con. 6000; ord. pres. 45 lb., fire pres. 75 to 80 lb.
Rates: flat, $5 year, bath $2, closets $1; meters, min. charge $6 year, 5c. 100 cu. ft.

MUSKEGON HEIGHTS, 1,690.
MUNICIPAL.
Supt. & Engr. P'g. Sta.,
Wm. Bluhm.....Muskegon Heights
Des. Engr., A. Premo... " "
Wells, 12 3 & 6-in. 85 ft. deep; ¼ mi. from center business section; reservoir, 125,000 gal.; no purification.
Pumps, 2-1,160,000 gal. vert. simple d. act. Platt 1905, 1-1,160,000 gal. hor. single Ingersoll-Rand 1914 belted to elec. motors, 2 50-hp. ea. 440 v. 3 ph. 25 cys. G. E. 1905; elec. energy from Grand Rapids-Muskegon Water & Power Co.; pumping to standpipe (1905) 187,000 gal.
Pipe, 12 mi. 4 to 10-in. c. i.; hyd. 48, hose con. 3-in.; valves, 28 r. h. opening Crane; meters, 800 Hersey; av. daily cons. 70,000 gal.; serv. con. 800; ord. pres. 50 to 60 lb., fire pres. 90 to 110 lb.
Rates: meter, min. charge 35c. mo. 5,000 gal., 7c. 1000 gal.

NASHVILLE, 1,346.
MUNICIPAL.
Vil. Engr., C. E. Cappell.....Nashville
Thornapple River & wells, 3 6-in. 290 to 305 ft. deep; pumps, 2-500,000 gal. ea. simple duplex Hughes 1891; pumping direct & to standpipe, 70,000 gal.
Pipe, 4 mi. 4 to 8-in.; hyd. 38; ord. pres. 39 to 60 lb.

NEGAUNEE, 8,460.
MUNICIPAL.
Chmn. Bd. Pub. Wks.,
James H. Rough.....Negaunee
Secy., C. V. R. Townsend..... "
Supt., Chris. Hansen..... "
Engr. P'g. Sta., Oliver Symons... "
Chemist, Dr. C. J. Larson..... "
Teal Lake; ½ mi. from center distribution; chemical, hypochlorite of lime.
Boilers, 2-400-hp. Sterling; pump, 1-2,000,000 gal. Prescott, 2-1,000,000 gal. ea. Worth.; pumping direct.
Pipe, 26 mi. 4 to 12-in. wood; hyd. 85, hose con. 2½-in. Eddy; valves, 147 l. h. thd.; meters, 870 National & Worth.; serv. con. 1700; ord. pres. 70 lb., fire pres. 90 lb.
Rates: flat, $6 year, bath $3, closet $3; meter, 13c. 1000 cu. ft. max., 7c. min.

NEWAYGO, 1,207.
MUNICIPAL.
Pres. Comr., John Bailey.....Newaygo
Comr., A. A. Hemily..... "
" A. E. Burnham..... "
" A. Dysinger..... "
Supt., D. E. Hyde..... "
Engr. P'g. Sta., W. H. Ostrom.... "
Hess Lake & brooks.
Pumps, 1-144,000 gal. & 1-720,000 gal. driven by wtr. turbines, 35-hp.; pumping direct and to elev. tank, 30,000 gal.
Pipe, 2 mi. 4 to 10-in. c. i.; hyd. 17, hose con. 2½-in., valves, r. h. th.; av. daily cons. 100,000 gal.; serve. con. 140; ord. pres. 35 to 70 lb., fire pres. 35 to 125 lb.

NEW BALTIMORE, 920.
MUNICIPAL.
Vil. Pres., C. E. Hills.....New Baltimore
Lake St. Clair; pumps, 2-600,000 gal. hor. 1902; pumping direct & to elev. tank, 38,500 gal.
Pipe, 5 mi. 4 to 12-in.; hyd. 32; ord. pres. 43 lb.

NEWBERRY, 1,182.
MUNICIPAL.
City Pres., W. T. Murphy.....Newberry
Supt., S. R. Sprague..... "
Wells, 6 6-in. 100 ft. deep; near center distribution; no purification.
Boilers, 3 hor. tubular 350-hp. Kewanee; hand stoking; pumps, 3-2,880,000 gal. F. M.; pumping direct.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 21, hose con. 2½-in.; valves, 15 r. h. thd. Eddy; serv. con. 200; ord. pres. 45 to 50-lb., fire pres. 80 to 110 lb.
Rates: flat, $3 year, bath $2, closets $3.

NORTH MUSKEGON, *350.
MUNICIPAL.
Mayor, H. M. Hardy.....No. Muskegon
Bear Lake; pumps, 2-96,000 gal. ea. Walker 1883; pumping direct; pipe, 3 mi.; hyd. 25.

NORTHVILLE, 1,665.
MUNICIPAL.
Supt., Samuel Wilkinson.....Northville
Springs; 3 mi. from center distribution.
Gravity distribution; pipe, c. i.; hyd. 65, hose con. 2½-in. Roe-Stephens; meters, 20 Thomson; serv. con. 450; ord. pres. 71 lb., fire pres. same.

NORWAY, 4,974.
MUNICIPAL.
Pres. Comr., Gordon Murray.....Norway
Clerk, W. J. Corin..... "
Supt., D. W. Martin..... "
Engr. P'g. Sta., G. A. Larson..... "
Fuinee & Forest Lakes; reservoir, 2-488,000 gal.; no purification.
Boilers, 2 75-hp. ea. 125 lb. B. & W., Aultman & Taylor, 1901; hand stoking, pumps, 1-500,000 gal. comp. duplex Deane 1892, 1-500,000 gal. triplex Gould 1908 belted to steam engine, 1-500,000 hor. centrifugal Lawrence 1908 belted to steam engine; pumping direct & to reservoir, above.
Pipe, 17 mi. 4 to 12-in. c. i.; hyd. 115, hose con. 2½-in.; valves, 107 l. h. opening Ludlow & Eddy; meters, 125 Pittsburgh & National; av. daily cons. 576,000 gal.; serv. con. 875; ord. pres. 30 to 60 lb., fire pres. 100 lb.
Rates: flat, $1.50 quarter, bath 50c., closet 75c.; meter, min. charge $8 mo. 10,000 gal., 30c. 1000 gal. max., 8c. min.

OAKWOOD, *1,200.
SUPPLIED BY THE CITY OF DETROIT.

OLIVET, 627.
MUNICIPAL.
Pres. Comr., E. E. Long.....Olivet
Supt. & Engr. P'g. Sta., F. M. Hain "
Cons. Engr., W. L. Dillon.....Detroit
Wells, 2 8-in. 125 ft. deep; ¼ mi. from center business section; no purification.
Pumps, 2-216,000 gal. vert. duplex Wagner 1913 geared to elec. motor, 2 15-hp. ea. 440 v. 3 ph. 60 cys. Wagner 1913; elec. energy from Consumers Power Co. & Charlotte; pumping to elev. tank, 13,500 gal. steel.
Pipe, 4 mi. 4 to 8-in. wood; hyd. 32, hose con. 2½-in. Rensselaer; valves, 8 l. h. opening Rensselaer; meters, 50; av. daily cons. 35,567 gal.; serv. con. 53; ord. pres. 30 to 40 lb., fire pres. 40 to 80 lb.
Rates: meter, min. charge $1.50 quarter 9000 gal., 15c. 1000 gal.

ONAWAY, 2,702.
MUNICIPAL.
Pres. Comr., Wilbur Hermon.....Onaway
Supt., W. B. Barker..... "
Wells & reservoirs, 3-225,000 gal.
Boilers, 2 100 lb.; hand stoking; pumps, 2 d. act.; air compressors, 2 Ingersoll-Rand; pumping to elev. tank, 2 (1900) 150,000 gal.
Hyd. 45, hose con. 2½-in., av. daily cons. 100,000 gal.; fire pres. 100 to 120 lb.
Rates: flat, $6 year; meter, 30c. 1000 gal.

ONTONAGON, 1,964.
MUNICIPAL.
Vil. Pres., Andrew Anderson....Ontonagon
Vil. Engr., H. W. Fesing.....Houghton
Lake Superior & wells, 2 10-in. 130 to 250 ft. deep; pumps, 1-2,160,000 gal. duplex Prescott 1902, 1-960,000 gal. F. M. 1894; pumping direct & to elev. tank, 100,000 gal.
Pipe, 5 mi. 2 to 12-in.; hyd. 62; ord. pres. 56 lb.

OVID, 1,078.
MUNICIPAL.
Vil. Clerk, G. G. Hunter.....Ovid
Supt. & Engr. P'g. Sta., B. A. Wilkinson "
Wells, 2 6-in. & 13 ft. diam. 26 & 275 ft. deep; near center business section.
Boilers, 2 return tubular 80-hp. ea. 100 lb. Wickes 1908; hand stoking; pumps, 2-100,000 gal. ea. hor. duplex Gordon 1888; air compressors, Ingersoll-Rand 1912 driven by steam; pumping to elev. tank (1906) 60,000 gal. wood.
Hyd. 36, hose con. 2½-in.; valves, 23 l. h. opening; meters, 6 Buffalo & Badger; serv. con. 200; ord. pres. 40 lb., fire pres. 90 to 110 lb.
Rates: flat, $3 year, bath $2, closet $1; meter, min. charge $1 quarter 7000 gal. 15c. 1000 gal.

OWOSSO, 9,639.
MUNICIPAL.
Comr., Fred L. Manscom.....Owosso
" J. Rosevear..... "
Wells, 14 6-in. 71 to 300 or 400 ft. deep; pumps, 1-2,000,000 gal. cross comp. Snow 1908, 2-1,080,000 gal. duplex Gordon 1885; pumping direct.
Pipe, 18 mi. 4 to 12-in.; hyd. 203; ord. pres. 56 lb.

OXFORD, 1,191.
MUNICIPAL.
Chmn. Comr., Albert Stoll.....Oxford
Comr., L. Haines..... "
" Geo. Haddrill..... "
City Clerk, B. Lushen..... "
Supt., E. A. Dungey..... "
Wells, 4 8-in. 86 ft. deep; ½ mi. from center business section.
Boilers, 2 return tubular 100-hp. ea. 85 lb. 1895; pumps, 2-250,000 gal. hor. simple c. & f. wh. Walker 1895; pumping direct.
Rates: flat, bath $1 mo. closet 80c.; meter, 10c. 1000 gal. max. 5c. min.

PAW PAW, 1,643.
MUNICIPAL.
Vil. Pres., D. Anderson.....Paw Paw
" Clerk, H. Spicer..... " "
Supt., C. E. Roundy..... " "
Wells, 2 open 14 & 18 ft. in diam. 18-ft. deep; ½ mi. from center business section.
Boilers, 2 hor. 40-hp. ea. 40 lb. Erie 1898; hand stoking; pumps, 2-725,000 gal. comp. d. act. Snyder-Hughes 1898, 1-725,000 gal. centrifugal Goulds 1913 d. con. to elec. motor, 35-hp. 220 v. 3 ph. 60 cys. F. M. 1913; pumping to standpipe (1898) 65,000 gal.
Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 40, hose con 3-in. R. D. W.; valves, 50 r. h., opening Clow; meters, 400 National & Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 425; ord. pres. 50 lb., fire pres. 60 to 150 lb.
Rates: meter, min. charge $2.50 six mo., 28,750 gal., 10c. 1000 gal. max., 8c. min.

PENTWATER, 1,129.
MUNICIPAL.
Vil. Clerk, V. P. Weidensee.....Pentwater
Comr., W. D. Girard..... "
Wells, 32 1½-in. 30 ft. deep; pumps, one triplex 1912 driven by elec. motors; pumping direct & to standpipe, 50,000 gal.
Pipe, 1.3 mi. 4 to 8-in.; hyd. 22; ord. pres. 48 lb.

PERRY, *800.
MUNICIPAL.
Vil. Clerk, J. W. Strong.....Perry
Well, 8-in. 200 ft. deep; pumps, 1-108,000 gal. deep well Deane 1914; pumping to elev. tank, 60,000 gal.
Pipe, 4 mi. 6-in.; hyd. 27; ord. pres. 56 lb.

PETOSKEY, 4,778.
PETOSKEY WATERWORKS. (Privately owned.)
Supt. & Engr. P'g. Sta.,
J. W. Lovelace.....Petoskey
Wells, near Lake Michigan.
Boilers, 2 tubular 200-hp. Muskegon; hand stoking; pumps, 2-2,500,000 gal. L-D-G. & Walker, Walker pump driven by water-turbine; pumping to reservoir, 350,000 gal.
Pipe, 16 mi. 4 to 12-in.; hyd. 86, hose con. 3-in. various; valves, 250; meters, 400 various; av. daily cons. 600,000 gal.; serv. con. 1300; ord. pres. 150 lb., fire pres. same.
Rates: flat, $4 year; meter, 12c. 100 cu. ft. max., 2c. min.

PIGEON, *700.
MUNICIPAL.
Vil. Clerk, A. H. Sauer.....Pigeon
Wells, 8-in. 150 ft. deep; pumps, 1-360,000 gal. triplex National 1911; pumping to elev. tank, 18,000 gal.; pipe, 2 mi. 4 & 6-in wood; hyd. 24.

PLAINWELL, 1,493.
MUNICIPAL.
Vil. Pres., L. E. Irland.....Plainwell
Engr., C. A. Payne..... "
Wells, 8 5-in. 45 ft. deep; pumps, 1-864,000 gal. F. M. 1899, 1-864,000 gal. Walker 1909; pumping direct.
Pipe, 5 mi. 4 to 8-in.; hyd. 53; ord. pres. 45 lb.

PONTIAC, 14,532.
MUNICIPAL.
Supt., H. L. Weaver.....Pontiac
Impounding reservoir, 2,000,000 gal. & wells, 10 8 to 16-in. 146 to 235 ft. deep; pumps, 1-5,000,000 gal. hor. tri. exp. c. & f. wh. 1902, 1-15,000,000 gal. hor. tri. exp. c. & f. wh. 1914; pumping direct.
Pipe, 44 mi. 2 to 16-in.; hyd. 41; ord. pres. 55 lb.

PORT AUSTIN, 533.
MUNICIPAL.
Vil. Pres., J. S. Osborne.....Port Austin
" Clerk, R. D. Churchill..... " "
Supt., James Cartwright..... " "
Well, 8-in. 154 ft. deep; pumps, 1-504,000 gal. triplex Deane 1914; pumping direct & to reservoir, 30 x 14 x 10 ft.
Pipe, one mi. 4 & 6-in.; hyd. 14.

PORT HURON, 18,863.
MUNICIPAL.
Supt. Pub. Wks., Otto Hill Port Huron

PORTLAND, 1,833.
MUNICIPAL.
Chmn. Comrs., F. S. Lockwood...Portland
Comr., A. S. Nunnly..... "
" C. D. Lakin..... "
Supt., A. C. Selleck..... "
Wells, open & tubular 300 ft. deep; near center distribution; no purification.
Boilers, one return tubular 80-hp. Porter; pumps, 3-92,000 gal. Deane, Walker & Manistee; elec. motors, 220 v. 3 ph. 60 cys. G. E. & Allis-C.; elec. energy from municipal elec. plant; pumping to standpipe (1889) 85,000 gal. steel.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 2½-in. Chapman; valves, 50 r. h. thd. Eddy; meters, none; av. daily cons. 275,000 gal.; serv. con 400; ord. pres. 50 to 68 lb., fire pres. 90 lb.

QUINCY, 1,347.
MUNICIPAL.
Vil. Pres., L. O. Barron.....Quincy
" Clerk, A. J. Falant..... "
Wells, 4 6-in. 35 ft. deep; pumps, one duplex F. M. 1894; pumping direct.
Pipe, 4.7 mi. 4 to 10-in.; hyd. 36; ord. pres. 50 lb.

REDFORD, 328.
MUNICIPAL.
Vil. Pres., Geo. C. Burgess.....Redford
Borings have been made and works will be completed in the near future.

REED CITY, 1,690.
MUNICIPAL.
Chmn. Comr., J. T. Holden.....Reed City
Comr., J. L. Rayfuse..... " "
" J. G. Ginrich..... " "
Vil. Clerk, Stewart Hammond... " "
Engr. P'g. Sta., R. L. Lambert.. " "
Hersey River; 1½ mi. from center business section; no purification.
Boilers, one 125-hp. Scotch marine 80 lb. McGregor 1905, one return tubular 80-hp. 80 lb. Sullivan 1886; hand stoking; pumps, 1-1,500,000 gal. comp. d. act. Gardner 1905, 1-1,500,000 gal. comp. d. act. Gardner 1912; pumping direct.
Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 47, hose con. 3-in.; valves, 4 r. & l. h. opening; av. daily cons. 600,000 gal.; serv. con. 300; ord. pres. 33 to 40 lb., fire pres. 80 to 125 lb.
Rates: flat, $4.50 year, bath $1.50, closet $1.

REPUBLIC, 1,275.
MUNICIPAL.
Pur. Agt., John M. Bush.....Republic
Supt. & Engr. P'g. Sta.,
Geo. MacDonald..... "
Perch Lake; one mi. from center business section; reservoir, 3,500,000 gal.
Boilers, 2 tubular 60-hp. ea. 80 lb. Cheboygan 1905; hand stoking; pumps, 2-750,000 gal. comp. d. act. Prescott 1905; pumping to reservoir, above.
Pipe, 5 mi. 4 to 8-in. wood; hyd. 40; hose con. 2½-in. Roe-Stephens; valves, 30 l. h. opening Roe-Stephens; av. daily cons. 100,000 gal.; serv. con. 400; ord. pres. 50 to 65 lb., fire pres. 50 to 80 lb.
Rates: flat, $1.50 quarter, closet $3.

RICHMOND, 1,277.
MUNICIPAL.
Vil. Pres., O. B. Evans.....Richmond
Clerk, F. W. Burke..... "
Wells, 2 12-in. 150-ft. deep.
Pumps, 2-288,000 gal. American driven by elec. motors, 15 & 25-hp. 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1895) steel.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. Roe-Stephens; valves, 20 Roe Stephens; meters, none, av. daily cons. 150,000 gal.; serv. con. 450; ord. pres. 45 lb., fire pres. 90 lb.
Rates: flat, $4 year.

RIVER ROUGE, 4,163.
SUPPLIED BY THE CITY OF DETROIT.

ROCHESTER, 1,516.
MUNICIPAL.
Chmn. Comrs., Geo. A. Axford...Rochester
Supt., John F. Jackson..... "
Artesian wells, 2½-mi. from center distribution; no purification.
Gravity distribution from reservoir, 2-2,625,000 gal.; pipe, 10.5 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. Roe-Stephens; valves, 91 r. h. thd. Eddy & Roe-Stephens; meters, 10 Thomson & Neptune; av. daily cons. 250,000 gal.; serv. con 520; ord. pres. 60 lb., fire pres. same.
Rates: flat, $3 year, closet $1.50; meters, 3c. 1000 gal.

ROMEO, 1,787.
MUNICIPAL.
Chmn. Comrs., M. B. Smith.....Romeo
Sec. & Supt., B. N. Seaman..... "
Comr., Wm. Rumsey..... "
" Wm. Gray..... "
Engr. P'g. Sta., Ben Porter..... "
Chemist, Dr. W. R. T. Shape..... "
Wells, 3 tubular 6-in. 36 ft. deep; ¾ mi. from center distribution; no purification.
Boilers, 2 hor. tubular 45 hp. Atlas; hand stoking; pumps, 2-1,500,000 gal. Hughes; pumping direct & to standpipe (1892) iron.
Pipe, 8 mi. 4 to 12-in. iron; hyd. 75, hose con. 2½-in. R. D. W.; valves, 30 l. h. thd. Flower; meters, 100 Buffalo, Neptune,

National & Pittsburgh; av. daily cons. 250,000 gal.; serv. con. 400; ord. pres. 40 to 63 lb., fire pres. 53 to 125 lb.

Rates: meter, 10c. 1000 gal.

ROSCOMMON, 425.

MUNICIPAL.

Pres., A. J. Price.....Roscommon
Clerk, C B. Hurd..... "
Treas., Chas. De Waele..... "
Supt., W. H. Wallace..... "

Artesian wells; near center distribution.

Pumps, 1-432,000 gal. F. M. driven by oil engine, 15-hp. F. M.; pumping direct & to standpipe, 4000 gal.

Hyd. 12, hose con. 2½-in.; av. daily cons. 10,000 gal.; serv. con. 75; ord. pres. 45 lb., fire pres. 60 to 75 lb.

Rates: flat, min. $4 year.

ROYAL OAK, 1,071.

MUNICIPAL.

Chmn. Comr., Geo Weitzel.....Royal Oak
Vil. Clerk, Maurice Blair..... " "
Supt., Wm. Folland..... " "

Wells, 4 artesian 8-in. 142 ft. deep; one mi. from center distribution.

Pumps, 1-86,400 gal. deep well Wagner 1913, 2-420,000 gal. triplex Wagner 1915 driven by elec. motor, 2 15-hp. ea. & one 20-hp. 220 v. 3 ph. 60 cys. Wagner 1913-15; pumping to standpipe (1913) 100,000 gal.

Pipe, 8 mi. 4 to 8-in. c. i.; valves, 92 l. h. opening Ludlow; meters, 356 Thomson; av. daily cons. 85,000 gal. 95%; serv. con. 360; ord. pres. 40 to 45 lb., fire pres. same.

Rates: meter, min. charge $2.50 10,000 gal., 20c. 1000 gal.

SAGINAW, 50,150.

MUNICIPAL.

Chmn. Comr., R. F. Johnson.....Saginaw
City Engr., H. H. Eymer..... "
Engr. P'g. Sta., Chas. A. Scherping "
" " " Robert W. Stewart "

Saginaw River; 3 mi. from center business section; no purification

East Side Sta.: 3 wtr. tube 300-hp. ea. 175 lb. Wickes 1911; mechanical stokers, Detroit; pumps, 1-6,000,000 gal. vert. quadruplex Holly 1883, 1-12,000,000 gal. hor. comp. Holly 1890. 1-6,000,000 gal. cross comp. c. & f. wh. L-D-G. 1913; West Side Sta.: boilers, 3 wtr. tube 125-hp. ea. 135 lb. Wood 1895; mechanical stokers, Ide; pump, 1-4,000,000 hor. comp. Holly 1885, 2-3,000,000 gal. ea. hor. duplex d. act. F. M. 1911; pumping direct.

Pipe, 126 mi. 4 to 24-in. c. i.; hyd. 1107, hose con. 2½-in. Roe-Stephens, R. D. W. & Holly; valves, 1037 r. & l. h. opening; meters, 346 various; av. daily cons. 9,500,000 gal. 60%; serv. con. 9000; ord. pres. 40 to 60 lb., fire pres. 80 to 95 lb.

Rates: flat, $7 year, bath $2, closet $3; meters, min. charge $10 year, 11c. 1000 gal max. 4c. min.

ST. CHARLES, 1,451.

MUNICIPAL.

Supt., L. V. Traut.....St. Charles

Bad River; pumps, 1-720,000 gal. duplex 1911; pumping direct; pipe, 0.7 mi. 6 & 8-in.

ST. CLAIR, 2,633.

MUNICIPAL.

Chmn. Comr., Geo. W. Smith.....St. Clair
Supt., W. M. Barron..... " "
Engr. P'g. Sta., J. P. Grite..... " "

Saint Clair River; chemical, hypochloride of lime.

Boilers; hand stoking; pumps, 2-2,500,000 gal.; pumping direct.

Pipe, 11 mi. 4 to 12-in. hyd. 57, hose con. 2¾-in. Ludlow & Roe-Stephens; av. daily cons. 650,000 gal.; serv. con. 800; ord. pres. 60 to 75 lb., fire pres. 100 lb.

ST. IGNACE, 2,118.

MUNICIPAL.

Pres., F. H. Hotchkiss.....St. Ignace
City Engr., F. V. Moore..... " "

Lake Huron; pumps, one cross comp. L-D-G 1909, one duplex L-D-G 1889; pumping direct & to standpipe, 50,000 gal.; pipe, 5 mi. 4 to 10-in.; ord. pres. 52 lb.

ST. JOHNS, 3,154.

MUNICIPAL.

Pres. Comr., M. F. Washburn....St. Johns
Sec. Wm. Chochrane..... " "
Supt. & Engr. P'g. Sta.,
Arthur Bishop..... " "

Wells, 3 6 to 12-in. 180 to 733 ft. deep; ½ mi. from center business section; reservoirs, 2-144,000 gal.

Boilers, 3 tubular 178-hp. ea. 11 5 lb. Wickes 1915; pumps, 2-500,000 gal. hor. comp. d. act. Gordon 1885; air compressors, 2 Ingersoll-Rand 1908 & Baton 1900; pumping to reservoir, above.

Pipe, 10 mi. 3 to 10-in. c. i.; hyp. 93, hose con. 2½-in. Roe-Stephens; valves, 75 l. h. opening Roe-Stephens; meters, 348 Buffalo National; av. daily cons. 280,000 gal.; serv. con. 910; ord. pres. 55 to 60 lb., fire pres. 100 lb.

Rates: flat $1 quarter, bath 50c. closet 75.

ST. JOSEPH, 5,936.

MUNICIPAL. Office, City Hall.

Vil. Pres., John Lindt.....St. Joseph
Chmn. Comr., Logan Drake..... " "
Clerk, Louis Telleber..... " "
Supt., S. A. Bunks..... " "
Engr. P'g. Sta., James Dansfield. " "

Lake Michigan; 1.5 mi. from center business section; chemicals, hypochlorite of lime.

Boilers, 2 return tubular 80-hp. ea. 80 lb. Foos 1892; hand stoking; pumps, 2-1,500,000 gal. hor. comp. d. act. Foos 1892; pumping direct & to standpipe.

Pipe, 20 mi. 4 to 16-in. c. i.; hyd. 130, hose con. 2½-in. R. D. W.; valves, 120 r. & l. h. opening mostly Eddy; meters, 1500 National & Hersey; av. daily cons. 703,098 gal. serv. con. 2000; ord. pres. 30 to 45 lb., fire pres. 80 to 85 lb.

Rates: meter, $1.25 quarter 850 cu. ft., 15c. 1000 gal. max., 8c. min.

SALINE, 816.
MUNICIPAL.
Chmn. Comrs., Willis M. Fowler.....Saline
Comr., J. A. Alber..... "
" Geo. Schmidt, Sr..... "
Supt. & Engr. P'g. Sta.,
Julius Bredernitz..... "
Cons. Engr.,
The W. J. Sherman Co.....Toledo, O.

Artesian well, 8-in. 118-ft. deep; one mi. from center distribution; no purification.

Pumps, 1-720,000 gal. Deane; gasoline engines, 50-hp. Foos; elec. motor, 220 v. 3 ph. 60 cys. G. E.; elec. energy from Eastern Michigan Edison Co.; pumping to elevated tank (1913) 50,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 34, hose con. 2½-in. Roe-Stephens; valves, 60 r. h. thd. Iowa; meters, 14 Neptune; av. daily cons. 40,000 gal.; serv. con. 114; ord. pres. 54 to 60 lb., fire pres. 57 to 110 lb.

Rates: flat, $3 year, bath $2, closet $2; meters, min. charge $2 6-mo. 8000 gal., 8c. 1000 gal.

SANDUSKY, 993.
MUNICIPAL.
Supt. & Ch. Engr. P'g. Sta.,
L. L. Ellis.....Sandusky

Wells, 2 tubular 8-in. 190 ft. deep; near center distribution; no purification.

Boilers, 2 tubular 100-hp. ea.; hand stoking; pumps, 1-260,000 gal. F. M., 1-360,000 gal. steam duplex F. M.; pumping to elev. tank, 50,000 gal. steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Ludlow; valves, 24 r. h. thd.; meters, none; av. daily cons. 40,000 gal.; serv. con. 153; ord. pres 45 to 50 lb., fire pres. 45 to 150 lb.

Rates: flat, $4 year, bath $2, closet $4.

SAUGATUCK, 621.
MUNICIPAL.
Vil. Pres., Frank E. Wilson.....Saugatuck
" Clerk, M. Inderbitzen..... "

Wells, 15 2 to 4-in. 28 to 40 ft. deep; pumps, 1-488,000 gal. Goulds 1904; pumping direct & to elev. tank, 90,000 gal.

Pipe, 2.7 mi. 4 & 6-in.; hyd. 25, ord. pres. 78 lb.

SAULT STE. MARIE, 12,165.
MUNCIPAL.
Mayor, S. T. Handy.....Sault Ste. Marie
Comr., A. E. Cullis..... " " "
" A. J. Eaton..... " " "
Supt., C. H. McIlharge.... " " "
Engr. P'g. Sta., B. F. Kelly " " "

Lake Superior at head of St. Mary's River; 3.5 mi. from center business section.

Boilers, 2 internally fired 150-hp. Boggeman; hand stoking; pumps, 2-5,000,000 gal. Holly; pumping direct.

Pipe, 32.5 mi.; 4 to 36-in iron & kalamein; hyd. 232, hose con. 2½-in. mostly Ludlow; meters, 210 various; av. daily cons. 3,000,000 gal.; serv. con. 2606; ord. pres. 70 lb. fire pres. 90 to 110 lb.

Rates: flat, $2 quarter; meter, 15c. 1000 gal. max., 1.5c. min.

SHELBY, 1,260.
MUNICIPAL.
Vil. Clerk, H. M. Elliott.....Shelby
Supt., V. E. Cooper..... "
Engr. P'g. Sta., R. Hamill..... "

Wells, 2 6-in. 140 ft. deep; near center business section; reservoir, 4000 gal.; no purification.

Pumps driven by elec. motor, 25-hp. 2300 v. 3 ph. 60 cys. Fort Wayne 1913; electric energy from Stearns Lighting & Power Co. & Ludington; pumping to reservoir, above.

Hyd. 45, hose con. 3-in. Eddy; meters, 150 Hersey & Pittsburg; av. daily cons. 75,000 gal.; serv. con. 400; ord. pres. 45 to 70 lb., fire pres. same.

Rates: flat, $1.50 quarter, bath 50c., closet 50c.; meter, min. charge $1 quarter, 20c. 1000 gal. max. 8c. min.

SHEPHERD, *1,000.
MUNICIPAL.
Vil. Clerk, H. Van Wie.....Shepherd

Wells, 2 4-in. 131 ft. deep; pumps, one triplex Platt 1909; pumping direct & to elev. tank, 30,000 gal.

Pipe, 2 mi. 4 & 8-in.; hyd. 20; ord. pres. 43 lb.

SHERIDAN, 436.
MUNICIPAL.
Vil. Pres., A. C. Kidder.....Sheridan
" Clerk, D. P. Crawford..... "
Supt., P. E. Stoddard..... "

Pearl Lake; pumps, 1-150,000 gal. duplex Gardner 1906; pumping direct & to elev. tank, 35,000 gal.

Pipe, one mi. 4 & 5-in.; hyd. 12; ord. pres. 46 lb.

SOUTH HAVEN, 3,577.
MUNICIPAL.
Supt., Wm. McEwing.....So. Haven
Engr. P'g. Sta., Geo. Ocobock... " "

Lake Michigan; ½ mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 3 tubular 450-hp. Springfield; hand stoking; pumps, 3-2,000,000 gal. Marsh & Goulds; pumping to standpipe (1895) iron.

Pipe, 12.7 mi. 4 to 12-in. c. i.; hyd. 115, hose con. 2½-in. R. D. W. & Eddy; valves, 48 l. h. thd. R. D. W.; meters, 1049 mostly Neptune; av. daily cons. 300,000 gal.; serv. con. 1147; ord. pres. 40 to 45 lb., fire pres. 85 to 100 lb.

Rates: meter, min. charge $1 mo., 28c. 1000 gal. max., 6c. min.

SPRING LAKE, 802.
MUNICIPAL.
Supt., John Cusick.....Spring Lake
Vil. Clerk, Wm. D. Spencer.... " "

Wells, two 25 ft. in diam. 30 ft. deep.

Pumps, 2-520,000 gal. Platt; gasoline

engine, 30-hp. National; elec. motors, 440 v. 3 ph. 25 cys. G. E.; elec. energy from Grand Rapids-Muskegon Power Co.; pumping to elev. tank, 30,000 gal. iron.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 32, hose con. 2½-in.; valves, r. h. thd.; meters, 207 Pittsburgh & National; serv. con. 210; ord. pres. 51 to 78 lb., fire pres. 100 to 125 lb.

Rates: flat, $5 year; meters, 43c. 1000 gal. 6c. min.

STAMBAUGH, 1,322.

MUNICIPAL.

Comr., E. J. Wanzer.....Stambaugh
" James G. Doucette..... "

Ice Lake; 1.5 mi. from center business section; pumps, 1-1,080,000 gal. comp. Deane 1911, 1-1,440,000 gal. comp. Cameron 1911; pumping direct & to elev. tank, 45,000 gal.

Pipe, 3 mi. 2 to 8-in.; hyd. 20; ord. pres. 62 lb.

STANDISH, 828.

MUNICIPAL.

Mayor, Jos. Martin.....Standish
Supt., C. F. Hall..... "

Pine River; pumps, 1-72,000 gal. simplex American 1912, 1-50,000 gal. duplex Gardner 1913; pumping direct.

Pipe, 1.8 mi. 3 & 6-in. c. i.; hyd. 18; ord. pres. 40 lb.

STANTON, 1,012.

MUNICIPAL LIGHT & WATER PLANT.

Supt., H. Busch.....Stanton
Engr. P'g. Sta., Frank Hasbury.... "

Wells, large open 12 ft. deep with 2 tubular in bottom, 50 ft. deep; pumps, 1-500,000 gal. duplex Walker 1888, 1-700,000 gal. duplex Deane 1912; pumping direct; pipe, 2.8 mi. 4 & 8-in.; hyd. 29.

STURGIS, 1,635.

MUNICIPAL.

Pres. Comr., C. Wilhelm.....Sturgis
Mgr. & Pur. Agt., J. S. Flanders.... "

Wells, 8 6 & 8-in. 132 ft. deep; ½ mi. from center business section; no purification.

Boilers, 2 wtr. tube 125-hp. ea. 120 lb. Erie 1899; hand stoking; pumps, 2-720,000 gal. hor. simple d. act. L-D-G. 1889; 1-1,440,000 gal. vert. centrifugal Worth. 1911, 2-360,000 gal. vert. centrifugal Worth. 1911, 2-1,440,000 gal. ea. hor. centrifugal Manistee 1914, all centrifugals driven by elec. motors, 2 60-hp. ea. 2200 v. 3 ph. 60 cys. Westg. 1914, 2 25-hp. ea. & one 100-hp. 2200 v. 3 ph. 60 cys. G. E. 1911; wtr. turbines, two 844-hp. ea. Allis-C.; elec. generators, two 550 kva. Allis-C., one 150 kva. Ft. Wayne; pumping direct.

Pipe, 15 mi. 2 to 10-in. c. i.; hyd. 95, hose con. 2½-in. Roe-Stephens; meters, 200 Pittsburgh; av. daily cons. 900,000 gal.; serv. con. 1400; ord. pres. 55 lb., fire pres. 55 to 120 lb.

Rates: flat, $6 year, bath $2, closet $3; meter, min. charge $1.20 quarter 8500 gal., 14c. 1000 gal. max., 8c. min.

TECUMSEH, 2,332.

MUNICIPAL.

Vil. Clerk, V. D. Heesen.....Tecumseh

Well, 20 ft. in diam. 24 ft. deep & 8 tubular 40 to 98 ft. deep; pumps, 3-1,080,000 gal. & 1,440,000 gal. 1891; pumping direct & to elev. tank, 159,000 gal.

Pipe, 11 mi. 4 to 12-in.; hyd. 85; ord. pres. 54 lb.

THREE RIVERS, 5,072.

MUNICIPAL.

Mayor, George H. Arnold....Three Rivers
Supt., Chas. Laubick..... " "

Wells, 10 6-in. 86 to 118 ft. deep; pumps, 2-730,000 gal. Walker 1882, 2-730,000 gal. Barr 1894; pumping direct.

Pipe, 14 mi. 4 to 8-in.; hyd. 104; ord. pres. 50 lb

TRAVERSE CITY, 12,115.

MUNICIPAL.

Mayor, Wm. Straub.....Traverse City
Supt., W. S. Williams..... " "
City Engr., Wm. Royce..... " "

Grand Traverse Bay; chemical, hypochlorite of lime.

Boilers, 2 tubular 150-hp. Pa. & Erie; hand stoking; pumps, 2-5,000,000 gal. ea. Snow & Buffalo; pumping direct.

Pipe, 38 mi. 4 to 16-in. c. i.; hyd. 260, hose con. 2½-in. Roe-Stephens; valves, 16 l. h. thd. Roe-Stephens; meters, 821 Worth., Neptune, Pittsburgh, Hersey & National; av. daily cons. 2,500,000 gal.; serv. con. 2230; ord. pres. 55 lb., fire pres. 90 lb.

Rates: flat, $4 year, bath $2, closet $2; meters, min. charge $1.75; 2500 cu. ft.

UBLY, 442.

MUNICIPAL.

Vil. Pres., F. H. Brown.....Ubly
" Clerk, A. Tagitt..... "

Wells, 2 4-in. 88 to 149 ft. deep; pumps, 1-440,000 gal. Goulds 1912; pumping direct & to elev. tanks.

Pipe, 1.2 mi. 4 & 6-in.; hyd. 15; ord. pres. 52 lb.

VASSAR, 1,659.

MUNICIPAL.

Comr., H. W. Owen.....Vassar
City Clerk, Louis Haskall..... "
Supt. James R. Stewart..... "

Wells, 7 artesian 6-in. 155 to 200 ft. deep; near center business section; reservoir, 110,000 gal.; no purification.

Boilers, one tubular 60-hp. 100 lb. Wickes 1888, 2 tubular 70-hp. ea. 100 lb. Wickes 1891; pumps, 1-15,000,000 gal. hor. comp. d. act. Holly; pumping to standpipe (1888) 110,000 gal.

Pipe, 8 mi. 4 to 10-in. wood; hyd. 58, hose. con. 3-in. R. D. W.; valves, 19 l. h. opening R. D. W.; meters, 325 various; av. daily cons. 90,000 gal. 80%; serv. con. 550; ord. pres. 65 lb., fire pres. 120 lb.

Rates: flat, $5.50 year; meter, min. charge 35c. mo. 1000 gal.

WATERVLIET, 728.

Present system is owned by the Watervliet Paper Company and is used for fire protection only. Wm. C. Spreen, Watervliet, is preparing estimates for a proposed municipal plant.

WAYLAND, 825.

MUNICIPAL.

Vil. Pres., H. G. Allgeo.....Wayland

Wells, 4 4-in. 70 ft. deep; pumps, one Goulds; pumping direct & to elev. tank, 30,000 gal.

Pipe, 2.6 mi. 4 & 8-in.; hyd, 28; ord. pres. 43 lb.

WAYNE, 1,263.

MUNICIPAL.

Cons. Engrs., Smith & Bowlay Co., 322 The Nasby, Toledo, O.

Lower River Rouge; settling basin, 4,000,000 gal.; pumps, 1-288,000 gal. triplex 1914, 1-720,000 gal. triplex 1914 both driven by elec. motors; pumping direct & to elev. tank (1914) 75,000 gal.

Pipe, 4.7 mi. 4 to 10-in.; hyd. 35; ord. pres. 65 lb.

WEST BRANCH, 1,276.

MUNICIPAL.

Mayor, F. R. Chapin.....West Branch
Clerk, T. C. Parliament..... " "
Treas., B. S. Sargent..... " "
Supt., Chas. T. Baker..... " "

Wells, 2 artesian 5-in.; near center distribution.

Pump driven by a gasoline engine; pumping to elev. tank, steel.

Rates: flat, $4 year, bath $1.50, closet $2.

WICKSBURG, *1,800.

MUNICIPAL.

Vil. Pres., E. W. Carter.....Wicksburg

Wells, 2 15 ft. & 19 ft. in diam. 25 & 27 ft. deep; pumps, 1-360,000 gal. Platt 1896, 1-500,000 gal. Burnham 1912; pumping direct.

Pipe, 4.7 mi. 2 to 8-in.; hyd. 33; valves, 16; ord. pres. 55 lb.

WYANDOTTE, 8,387.

MUNICIPAL.

Mayor, Chas. Marr.....Wyandotte
Comr., Chas. Gartner..... "
Supt., A. S. McClenahen..... "
Engr. P'g. Sta.,
August Schwachen..... "
Chemist, Earl Tucker..... "

Detroit River; ½ mi. from center business section; chemical, hypochlorite of lime.

Boilers, 2 wtr. tube 300-hp. ea. 150 lb. B. & W. 1902-07; hand stoking; pumps, 1-5,000,000 gal. hor. comp. c. & f. wh. Platt 1911, 2-1,500,000 gal. ea. hor. comp. duplex Foos 1889; steam engine, 400-hp. Skinner 1913 & 150-hp. Ball 1892; steam turbines, 450-hp. Westg. 1907; elec. generator, 2 312 kva. ea. & one 100 kva. Westg., Ft. Wayne & Allis-C.; pumping direct.

Pipe, 20.2 mi. 4 to 20-in. c. i.; hyd. 204, hose con. 2½-in. Roe-Stephens; valves, 135 l. ft. opening Roe-Stephens; meters, 30 various; av. daily cons. 2,500,000 gal.; serv. con. 1900; ord. pres. 45 to 50 lb., fire pres. 75 to 100 lb.

Rates: flat, $4 year, bath $2, closet $2.50; meter, $4 year, 15c. 1000 gal. max., 6c. min.

YALE, 1,223.

MUNICIPAL ELECTRIC LIGHT, WATER & HEAT PLANT.

Comr., F. D. Palmer.....Yale
Supt., R. G. Green..... "
Cons. Engr., H. M. Stark,
1503 Kresge Bldg.....Detroit

Wells, 6 95 to 480 ft. deep; pumps, 1-432,000 gal. Walker 1898; pumping direct & to elev. tank, 85,000 gal.

Pipe, 4 mi. 2 to 8-in.; hyd. 42; ord. pres. 55 lb.

YPSILANTI, 6,230.

MUNICIPAL.

Mayor, Lee M. Brown.....Ypsilanti
City Clerk, Sumner Damon..... "
Supt., W. F. Blanchard..... "

Wells, one open 27 ft. in diam. & artesian, 12 8-in. 60 ft. deep; ½ mi. from center distribution; reservoir, 248,000 gal.

Boilers, 2 hor. 100-hp.; hand stoking; pumps, 2-2,000,000 & 3,000,000 gal. L-D-G.; pumps are water turbine driven 9 mo. of the year; pumping to standpipe (1879) stone.

Pipe, 26 mi. 4 to 12-in. c. i.; hyd. 169, hose con. 2½-in. Roe-Stephens & Flowers; valves, 190 l. h. thd. Flower & Scott; meters, 975 Neptune; av. daily cons. 958,000 gal.; serv. con. 1982; ord. pres. 75 lb., fire pres. same.

Rates: flat, $5 year, bath $2, closet $2.50; meters, min. charge $5, 16,000 gal., 8c. 1000 gal.

ZEELAND, 1,982.

MUNICIPAL.

Chmn. Comrs., H. De Krins.....Zeeland
Comr., Z. Genenklassen..... "
Supt., R. L. Fritsche..... "
Engr. P'g. Sta., C. Schutt..... "

Well, 14 ft. in diam. 20 ft. deep; near center business section.

Boilers, 2 water-tube 125-hp. ea. 125 lb. B. & W. 1902; hand stoking; pumps, 2-750,000 gal. ea. hor. comp. duplex Platt 1902; pumping direct.

Pipe, 5 mi. 2 to 10-in. c. i.; hyd. 40, hose con. 2½-in.; valves, 38 l. h. opening; meters, 320 National; av. daily cons. 70,000 gal. serv. con. 340; ord. pres. 20 to 60 lb., fire pres. 60 to 90 lb.

Rates: flat, min. charge $2 year; meter, 8c. 100 cu. ft.

MINNESOTA

ADA, 1,432.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Pres. Comrs., P. Dullard.....Ada
Sec., P. Shook..... "
Dave Lightburn..... "
Supt., O. Sandcold..... "
Artesian wells, 4, 2 to 10-in. 240 ft. deep.
Boilers, 2 return tubular, 275-hp. ea. 125 lb., Spring 1900; hand stoking.
Pumps, 1-180,000 gal. vert. simplex 1900 belted to steam engines, 2-168,000 gal. vert. single Cook 1912 & 1914 geared to elec. motors, 220 v. d. c.; steam engines, 2 75 & 125-hp., 1900 & 1904; pumping to reservoir, 80,000 gal. & elev. tank (1900) 43,000 gal. wood.
Pipe, 5 mi. 6 & 8-in. c. i., hyd. 21, hose con. 2½-in. Eddy; valves, 8 l. h. opening Eddy; meters, 90 Badger; av. daily cons. 70,000 gal. 75%; serv. con. 190; ord. pres. 35 to 43 lb.
Rates; flat, $1.25 quarter; meter, min. charge $1.25 600 cu. ft., 20c. 100 cu. ft.

ADRIAN, 1,112.
MUNICIPAL.
Supt., T. W. Newell.....Adrian
Ch. Engr. P'g. Sta., R. C. Newell... "
Well, 12 ft. in diam. 45 ft. deep; ½ mi. from center distribution.
Boilers, 2 hor. fire-tube 100 & 150-hp. Brownell; hand stoking; pumps, 1-792,000 gal. Deane, 1-72,000 gal. Goulds belted to elec. motors, 5-hp. 230 v. d. c. Triumph; elec. energy from municipal plant; pumping to standpipe (1904) wood.
Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 21, hose con. 3-in. Standard; valves, 61 r. h. thd. Twin City; meters, 19 Neptune; av. daily cons. 30,000 gal.; serv. con. 125; ord. pres. 48 lb., fire pres. 80 to 120 lb.
Rates; flat, $5 year; meter, 50c 1000 gal. max., 35c. min.

AITKIN, 1,638.
MUNICIPAL.
Mayor, J. M. Marr.....Aitkin
Clerk, H. C. Beecher..... "
Treas., Victor E. Erickson..... "
Mud River; pump, steam, hyd. 35; meters 148.
Rates: meter, min. charge $1.02 quarter 5000 gal., 25c. 1000 gal. max., 10c. min.

ALBANY, 657.
MUNICIPAL.
Mayor, James Lehner.....Albany
Vil. Clerk, Thos. Tomosek..... "
" Treas, A. Veseman..... "
Wells; pumps driven by gasoline engine. & elec. motors; hyd. 13; meters, 7; serv. con. 53.
Rates: flat, $5 year; meter, 40c. 1000 gal.

ALBERT LEA, 6,192.
MUNICIPAL.
Chmn. Comrs., Martin Blacklin..Albert Lea
Comr., Chas. Mickelson.....Albert Lea
" F. F. Rogers..... " "
City Clerk, A. J. Dudley..... " "
Supt., W. L. Beedle..... " "
Engr. P'g. Sta., E. O. Fuller..... " "
Artesian wells 2 8 to 12-in. 448 to 660 ft. deep; near center business section; settling basin, 24,000 gal.
Boilers, 2 hor. tubular 80 & 100-hp. 80 lb. Atlas 1891; hand stoking; pumps, 1-2,500,000 gal. hor. comp. d. act. Deane 1899, 1-1,500,000 gal. hor. comp. d. act. Deane 1891; pumping to elev. tanks (1891) 96,000 gal. steel.
Pipe, 16 mi. 4 to 10-in. c. i.; hyd., 135, hose con. 2¼-in. Waterous, valves, 175 r. & l. opening Eddy; meters, 1250 National; av. daily cons. 450,000 gal.; serv. con. 1250, ord. pres. 50 lb., fire pres. 50 to 100 lb.
Rates: all meter, min. charge $2.50 six mos. 1667 cu. ft., $1.50 100 cu. ft. max., 53c. min.

ALEXANDRIA, 3,001.
MUNICIPAL.
Pres. Comrs., E. P. Wright.....Alexandria
Comr., J. A. Kinney..... "
" Dr. J. J. Volker..... "
Sec., C. J. Sundblad..... "
Supt., C. A. Johnson..... "
Wells, 2 16-in. 100 ft. deep; ¾ mi. from center distribution; reservoir, 300,000 gal.
Boilers, 2 water-tube 150-hp. ea. Robb-Mumford; hand stoking; pumps, 2 Barr, Canton; elec. motors, 25 & 35-hp. 220 v. 3 ph. 60 cys. G. E.; elec. energy from local plant; pumping direct to elevated tank, 600,000 gal. wood.
Pipe, 2.75 mi. 4 to 12-in. c. i.; hyd. 37, hose con. 2½-in. Holyoke; valves, 8 r. h. thd. Holyoke; meters, none; av. daily cons. 130,000 gal.; serv. con. 225; ord. pres. 45 to 50 lb., fire pres. 100 to 120 lb.
Rates: flat, $5 year, bath $2, closet $2.

ANOKA, 3,972.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Mayor, D. J. Abbett.....Anoka
City Clerk, N. P. Moberg..... "
City Treas., J. P. Erlander..... "
Supt., F. H. Philbrick..... "
Artesian wells; pumps, comp. duplex Barr & one centrifugal driven by elec. motor; hyd. 66; meters, 265.
Rates; meter min. charge 50c. mo., 20c. 1000 gal. max., 8c. min.

APPLETON, 1,221.
MUNICIPAL ELECTRIC LIGHT & WATER WORKS.
Mayor, P. E. O'Conner.....Appleton
Rec., Henry Linde..... "
Supt., Arthur Pennan..... "
Wells, 2 10-in. 185 ft. deep; near center of business section.

Boilers, 2 hor. tubular 100-hp. ea. 110 lb. Robinson 1900; hand stoking; pumps, 1-503,000 gal. hor. duplex steam 1900, 1-288,000 vert. deep well Dunham 1913; pumping to elev. tank (1902) 65,000 gal. wood & steel.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 29, hose con. 2½-in. Waterous; valves, 12 r. h. opening various; meters, 162 various; av. daily cons. 40,000 80%; serv. con. 168; ord. pres. 45 to 47 lb., fire pres. 70 to 100 lb.

Rates: meters, min. charge 50c. quarter 1666⅔ gal., 30c. 1000 gal. max., 25c. min.

ATWATER, 600.

MUNICIPAL.

Mayor, H. W. Jones.....Atwater
City Clerk, Chas. Swanson..... "
Vil. Treas., John Johnson..... "

Wells, 7; pumps driven by gasoline engines; hyd. 10; meters, 10; serv. con. 26.

Rates: flat, $5 year; meter, 25c. 1000 gal.

AURORA, 1,919.

MUNICIPAL.

Vil. Pres., Alfred Darrow.....Aurora
Recorder, W. J. Lord..... "
Treas., Carl F. Luth..... "

Wells, 2 90 & 110 ft. deep; pumps, one steam Cameron, one centrifugal driven by elec. motor, 35-hp. 3 ph.; hyd. 26; meters, 5; serv. con. 207.

Rates: flat, $1 mo.; meter, min. charge 50c. mo., 25c. 1000 gal. max., 15c. min.

AUSTIN, 6,960.

MUNICIPAL.

Pres. Comrs., J. D. Sheedy.....Austin
Comr., J. L. Gulden..... "
" C. A. Pooler..... "
" A. M. Smith..... "
" A. S. Campbell..... "
Sec., J. C. Todd..... "
Supt., Wm. Todd..... "

Springs & wells; 2.5 mi. center of business section.

Pumps, 2-2,000,000 gal. hor. comp. d. act. Smedley; pumping direct.

Pipe, 17 mi. 4 to 10-in. c. i.; hydrants 120, hose con. 3⅛ in. R. D. W.; meters, 1100 mostly National; av. daily cons. 1,000,000 gal.; serv. con. 1336; ord. pres. 55 to 65 lb., fire pres. 110 lb.

Rates: flat, $5.00 year, bath $3.00, closet $3.00; meter, min. charge 90c. quarter 600 cu. ft., 15c. per 100 cu. ft. max., 8c. min.

BARNESVILLE, 1,253.

MUNICIPAL.

Chmn. Comrs., John Baker.....Barnesville
Comr., T. F. Collins..... "
" A. A. McCann..... "
Supt. & Des. Engr., H. H. Pierce "

Deep well.

Boilers, 2 return tubular 200-hp. Lyons; pumps, 3-1,000,000-gal. F. M.; pumping to standpipe (1908) 65,000 gal. steel.

Pipe, 3 mi. 4 to 12-in.; hyd. 17, hose con. 2½-in.; valves, 30 r. h. thd. Crane; meters, 130 National & Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 130; ord. pres. 42 lb., fire pres. 90 to 115 lb.

Rates: meter, 50c. 1000 gal. max., 12.5c. min.

BAUDETTE, 897.

MUNICIPAL.

Pres., J. U. Williams.....Baudette
Clerk, T. J. Clauson..... "
Treas., R. M. Skinner..... "
Supt., Hugh Hamilton..... "
Engr. P'g. Sta., A. Elstad..... "

Rainy River; one mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 2 fire-tube 100-hp. ea. Freeman; hand stoking; pumps, 1-720,000 gal. Canton; pumping to elev. tank (1910) 100,000 gal. steel.

Pipe, 4 mi. 6 & 8-in. c. i.; hyd. 20, hose con. 2½-in. Waterous; valves, 15 r. h. thd.; meters, 150 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 55 lb., fire pres. same.

Rates: meters, 5c. 100 gal. max., 2c. min.

BELGRADE, 448.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, C. M. Iverslie.....Belgrade
Comr., P. A. Anderson..... "
Comr., O. Gullander..... "
Sec., Ole Hendrickson..... "
Supt., Elmer Iverslie..... "
Engr. P'g. Sta., E. T. Iverslie..... "

Wells, 2; near center business section.

Pumps, 1-147,200 gal. hor. c. & f. wh. Myers 1906 driven by gasoline engine, 25-hp. F. M. 1899; pumping to elev. tanks (1914) 40,000 gal. steel, Minneapolis Steel & Machinery Co.

Pipe, 0.75 mi. 4 to 8-in. c. i.; hydrants 9, hose con. 2½-in. Waterous; valves, 6 l. h. opening Crane, meters, none; av. daily cons. 1500 gal.; serv. con. 34; ord. pres. 50 lb.

Rates: $10 per year.

BELLE PLAINE, 1,104.

MUNICIPAL.

Mayor, P. T. Irwin.....Belle Plaine
Vil. Clerk, J. E. Townsend..... " "
Treas., Jos. Neupeiser..... " "

Deep well; pumps driven by elec. motors; hyd. 14; meters, 30; serv. con. 65.

Rates: flat, $5 year, bath $4, closet $3; meter, 5c. 100 gal. max., 3c. min.

BEMIDJI, 5,099.

MUNICIPAL.

City Clerk, George Stein.....Bemidji
Supt., George Kirk..... "

Wells, 3, 10 & 12-in. 137 to 343 ft. deep, near center business section.

Pumps, 1-720,000 gal. hor. simple Fairbanks Morse; 1-720,000 gal. triplex Gould 1910 d con. to elec. motor, 50-hp. 220-v. 3 ph. 60 cys. Allis-C. 1910, 1-centrifugal Robertson 1910 d. con. to elec. motor, 65-

hp. 220 v. 3 ph. 60 cys. Allis-C. 1910; all power for pumping furnished by Warfield Electric Co.; pumping direct & to elev. tank (1910) 100,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 7.5 mi. 4 to 10-in. c. i.; hyd. 90, hose con. 2½-in. Waterous & Ludlow; valves, 62 l. h. opening Ludlow, meters, 400 Neptune & National; av. daily cons. 150,000 gal.; ord. pres. 65 to 75 lb., fire pres. same.

Rates: meter, min. charge $2.00 quarter 7000 gal., 30c. 1000 gal. max., 9c. min.

BENSON, 1,677.

MUNICIPAL WATER & LIGHT BOARD.

Pres., Leslie Matthews.....Benson
Sec., Otto J. Olsen..... "
Treas., Thos. S. Wonniche..... "
Supt., A. G. Carlson..... "
Engr. P'g. Sta., G. K. Lee..... "

Wells, 2 8-in. 166 ft. deep.

Boilers, 2 50-hp. Williams; pump, steam; steam engines, 2 85-hp. Buckeye. Hyd. 30; meters 163.

Rates; meter, min. charge $1.04 a year, 20c. 1000 gal. max., 10c. min.

BIRD ISLAND, 131.

MUNICIPAL.

Trustee, A. J. Richardson.....Bird Island
Comr., Jesse Carney..... "
" Frank Poseley..... "
Village Rec., W. S. Ladd..... "
" Pres., John M. Olson.... "
Engr. P'g. Sta., Ed. Kromer.... "

Well, 10-in. 298 ft. deep; pump driven by gasoline engine, 8-hp. Watrous 1903; pumping to elev. tank (1903) 30,000 gal. wood & steel Des Moines Bridge & Iron Works.

Pipe, one mi. 4 to 8-in. c. i.; hyd. 13, hose con. 3-in. Watrous; valves, 5 r. h. opening; meters, 45 Buffalo & Neptune; av. d. cons. 20,000 gal.; serv. con. 65; ord. pres. 35 to 43 lb.

Rates: flat, min. charge $7.00 a year; meter, 20c. 1000 gal. max., 10c. min.

BIWABIK, 1,690.

MUNICIPAL.

Mayor, F. S. Cowin.....Biwabik
City Clerk, J. R. Gilpatrick..... "
City Treas., Frank Lundeen..... "

Supply from mine drift; pump, steam; hyd. 27; meters, 100; serv. con. 250.

Rates: flat 50c. mo.; meter, 20c. 1000 gal.

BLUE EARTH, 3,319.

MUNICIPAL. BLUE EARTH LIGHT & WATERWORKS.

Supt., Dan Fitch.....Blue Earth
Engr. P'g. Sta., Beckley Meper. " "

Well, 2 8-in. 230 & 675 ft. deep.

Boilers, 2 80-hp.; hand stoking; pump driven by elec. motor, 25-hp.; pumping to elev. tank (1911) steel.

Pipe, 10 mi. 4 to 12-in.; hyd. 68, hose con. 2½-in.; valves, 27 r. h. thd.; meters, 365 mostly National; av. daily cons. 65,000 gal.; serv. con. 375; ord. pres. 55 lb., fire pres. 100 lb.

BRAINERD, 8,526.

MUNICIPAL.

Pres. Comrs., M. T. Dunn.....Brainerd
V. Pres., C. B. Rowley..... "
Comr., A. A. Weidemann..... "
Sec. & Supt., Wm. Nelson..... "
Engr. P'g. Sta., E. E. McQuillin... "

Mississippi River; near center business section; no purification.

Boilers, 3 tubular 80-hp. ea. 80 lb. Blake 883; mech. stokers; pump, 1-2,300,000 gal. vert. comp. d. act. F. M. 1910, 2-750,000 gal. vert. simple d. act. Blake 1883; pumping direct.

Pipe, 17.5 mi. 4 to 12-in. c. i. & kalamein; hyd., 110, hose con. 2½-in. Ludlow, Eddy & Watrous; valves, 38 r. & l. h. opening; meters, 60 various; av. daily cons. 1,437,000 gal., serv. con. 1628; ord. pres. 75 lb., fire pres. 120 lb.

Rates, flat $9.00 a year; meter, min. charge 50c. mo., 40c. 1000 gal.

BRECKINRIDGE, 1,840.

MUNICIPAL.

Mayor, Charles T. Ahrens....Breckinridge
City Clerk, M. M. Reisdroffer. "
City Treas., Otto Knuth..... "
Supt., W. J. Sorensen..... "

Red River of the North; pump, centrifugal driven by elec. motor; hyd. 48; meters, 29; serv. con. 441.

Rates: flat, $1.10 year, bath $3, closet $1.50; meter, min. charge $1 mo., 25c. 100 cu. ft. max., 3c. min.

BRICELYN, 352.

MUNICIPAL.

Supt., John Foster.....Bricelyn

Wells: no purification.

Pumps driven by gasoline engine, 20-hp. International; pumping to elev. tanks; ord. pres. 40 lb., fire pres. 60 lb.

BROOTEN, *700.

MUNICIPAL.

Vil. Pres., N. R. Nelson.....Brooten
Comr., C. A. Nelson..... "
" O. O. Kettleson..... "
Sec., J. B. Wall..... "
Supt. & Engr. P'g. Sta.,
F. W. Sonnenberg..... "

Wells, 4 2-in. 20-ft. deep; at center business section; no purification.

Pumps driven by gasoline engine, 80-hp. F. M. 1905; pumping to elev. tank (1899) 60,000 gal. wood, F. M.

Pipe, 0.53 mi. 2 to 8-in.; hyd., hose con. 3-in.; valves, 5 r. h. opening; meters, 30 Buffalo; av. daily cons. 10,000 gal.; serv. con. 30; ord. pres. 33 to 43 lb., fire pres. same.

Rates meter, 25c. 1000 gal.

BROWERVILLE, 633.
MUNICIPAL.
Mayor, A. D. Hart.....Browerville
Vil. Clerk, Wm. Woell..... "
Treas., Robt. Bartella..... "
Hyd. 10; meters, none; serv. con. 12.
Rates: flat, $1 mo.

BROWNTON, 509.
MUNICIPAL.
Mayor, M. B. West.....Brownton
City Clerk, J. L. Zeidler..... "
Treas., Frank Mann..... "
Well; hyd. 15; meters, 25; serv. con. 100.
Rates; flat, $5 yr.; meter, 30c. 1000 gal.

BUHL, 1,005.
MUNICIPAL.
Supt., Dan Kinsman.....Buhl
Well, 10-in. 700 ft. deep; ¼ mi. from center distribution; reservoir, 200,000 gal.
Boilers, 3 tubular 150-hp. Goulds Brownell Kewabee; mechanical stoking, Model; air lifts, 504,000 gal. Sullivan operated by air compressor, steam driven Sullivan, 3 centrifugal American driven by elec. motors, 2-25 hp. 220 v. 3 ph. 60 cys. Lincoln; elec. energy from municipal plant; pumping to elev. tank, 100,000 gal. steel.
Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in.; meters, none; av. daily cons. 75,000 gal.; serv. con. 220; ord. pres. 40 lb., fire pres. 100 lb.
Rates: flat, $2.75 quarter.

CALEDONIA, 1,372.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS PLANT.
Pres., D. C. Rhines..... Caledonia
City Clerk, D. Merlow..... "
Supt. & Engr. P'g. Sta.,
John Eischen..... "
Wells, 2 4 & 10-in. 400 ft. deep; in center business section; no purification.
Pumps, 2-93,600 gal. vert. simple c. & f. wh. Keystone 1910; steam engines, 16-hp. Ames 1904, 22-hp. Clark 1910; pumping to standpipe (1893) 70,400 gal.
Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 23, hose con. 3½-in.; valves, 9 l. h. opening; meters, 278 Buffalo; av. daily cons. 35,000 gal.; serv. con. 278; ord. pres. 42 lb., fire pres. same.
Rates: meter, 45c. 100 cu. ft.

CAMBRIDGE, 900.
MUNICIPAL.
Mayor, Dr. Wm. Soneral.....Cambridge
Clerk, E. Lundahl..... "
Treas., T. C. Blomgren..... "
Well, 140 ft. deep; pumps driven by elec. motors; hyd. 15; meters, 125; serv. con. 129.
Rates: flat, $5 year, bath $2, closet $1.50.

CANBY, 1,528.
MUNICIPAL.
Mayor, M. Lundring.....Canby
Supt. & Engr. P'g. Sta., H. M. Sather "
Wells, 4-6 & 8-in. 70 ft. deep; ½ mi. from center distribution.
Pumps, 2-432,000 gal. Goulds belted to gasoline engines, 2-12 & 22-hp. Thompson; elec. motors, 5 hp. 440 v. 3 ph. 60 cys. Sprague; pumping direct and to elev. tank 61,000 gal.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 31, hose con. 2½-in. Waterous; valves, 60 r. h. thd.; meters, 117 Buffalo, Pittsburgh & National; av. daily cons. 30,000 gal.; ord. pres. 40 to 45 lb., fire pres. same.
Rates: meter, $1.50 1000 cu. ft.

CANNON FALLS, 1,385.
MUNICIPAL.
Mayor, E. J. Holmes.....Cannon Falls
City Clerk, Geo. E. Wilson... " "
Engr. P'g. Sta., F. P. Johnson. " "
Artesion well, 6-in. 360 ft. deep; near center business section; reservoir 100,000 gal.; no purification.
Pump, 1-360,000 gal. vert. tri. exp. c. & f. wh. Goulds 1904; gasoline engines, 25-hp. F. M. 1904; pumping to elev. tank (1887) 100,000 gal. stone & cement.
Pipe, 5 mi. 6 & 8-in. c. i.; hyd. 17, hose con. 2½-in.; valves, 20 l. h. opening; meters, 42 National & Pittsburgh; serv. con. 35; ord. pres. 65 to 75 lb., fire pres. 65 to 100 lb.
Rates: meter, min. charge 30c. mo. 100 cu. ft., 30c. 100 cu. ft. max., 11c. min.

CASS LAKE, 2,011.
CASS WATER, LIGHT & POWER CO.
OFFICE, DULUTH, MINN.
Pres., G. G. Hartley.....Cass Lake
V. Pres., W. H. Burres..... " "
Sec. & Treas., H. L. Hartley..... " "
Gen. Mgr. & Pur. Agt.,
A. V. Wardner..... " "
Engr. P'g. Sta., F. E. Bateman.. " "
Wells, 8 4-in. 60 ft. deep; boilers, 2 85-hp. ea. Williams 1900; hand stoking; steam engines, 2 G. E. 1900-04; pumping to elev. tank (1912) 50,000 gal. steel.
Pipe, 4 to 10-in.; hyd. 22, hose con. 2-in.; ord. pres. 50 lb.

CHATFIELD, 1,228.
MUNICIPAL.
Mayor, C. W. Woodruff.....Chatfield
Recorder, S. W. Shimer..... "
Treas., Kanute Olson..... "
Impounding reservoirs; pumps, steam Cook; hyd. 34; serv. con. 200.
Rates: flat, $5 year, bath & closet, $5.

CHISHOLM, 7,684.
MUNICIPAL:
Supt., C. J. Sullivan.....Chisholm
Engr. P'g. Sta., Frank Vaurio.... "
Mine shaft; 1½-mi. from center distribution; settling and coagulating basins, 400,000 gal.; mechanical filters, 2-1,000,000-gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, 2-1,872,000 gal. Platt & F. M. elec. motors, 56 kw. 3 ph. 60 cys., Westg.; pumping to elev. tank, 300,000 gal. steel.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 90, hose con. 2½-in. R. D. W.; valves, 140 r. h. thd. Crane; meters, none; av. daily cons. 500,000 gal.; serv. con. 800; ord. pres. 85 to 95 lb., fire pres. same.

CLARA CITY, 587.

MUNICIPAL.

Mayor, J. J. Ulferts.....Clara City
Vil. Clerk, August Liethold..... " "
Treas., Ed. Burseck..... " "

Wells; pumps, driven by gasoline engine; hyd. 15; serv. con. 30; rates; flat, $5 year.

CLARKFIELD, 603.

MUNICIPAL.

Mayor, J. M. Silver.....Clarkfield
Vil. Clerk, Alfred Hulteem..... "
Treas., E. Monsen..... "

Well, tubular; pumps, driven by gasoline engine; pumping to elev. tank; hyd. 4; meters, 6.

Rates: meter, 50c. 1000 gal.

CLOQUET, 7,031.

MUNICIPAL.

Mayor, Fred D. Vibert.....Cloquet
Clerk, John A. Parks..... "
Comr., Wm. J. Peters..... "
" W. S. Olson..... "
" Frank Yetka..... "
Supt., Archie Campbell..... "

Springs; 1½-mi. from center distribution; reservoirs, 200,000-gal.; no purification.

Pumps, 2-1,000,000 gal. Allis-C.; elec. motors, 90-hp. 2080 v. 3 ph. 60 cys. Allis-c.; pumping to elev. tank, 125,000 gal. steel.

Pipe, 13.2 mi. 4 to 12-in. c. i.; hyd. 109, hose con. 2½-in. Ludlow & Waterous; valves, 255 l. h. thd. Ludlow, Eddy & Crane; meters, 800 Pittsburgh & Neptune; av. daily cons. 125,000 gal.; serv. con. 800; ord. pres. 70 to 110 lb., fire pres. same.

Rates: all meter, 50c. 1000 gal. max., 9c. min.

COLD SPRINGS, 594.

MUNICIPAL.

Mayor, F. Peters.....Cold Springs
Vil. Clerk, P. J. Gilley..... " "
Treas., P. T. Maurin..... " "

Springs; pumps driven by gasoline engine; pumping to elev. tank; hyd. 17; meters, 25; serv. con. 25.

Rates: all meter, min. charge 50c. mo., 10c. 1000 cu. ft.

COLERAINE, 1,613.

OLIVER IRON & MINING COMPANY.

Water veins in under-ground mining drifts; pumps, steam; hyd. 39; serv. con. 150.

Rates: flat, $5 year, bath $3, closet $3.

CROOKSTON, 7,559.

CROOKSTON WATERWORKS, POWER & LIGHT CO.

Pres., W. J. Murphy.....Minneapolis
Sec. A. L. Ginsmere..... "
Gen'l. Mgr., E. Peterson.....Crookston

Red Lake River & artesian wells; mechanical filters, 1,000,000-gal.; chemicals, sulphate of alumina & hypochlorite of lime.

Pumps operated by elec. motors; pumping to elev. tank, 50,000-gal.

Av. daily cons. 500,000 gal.; serv. con. 1000; ord. pres. 50 lb., fire pres. 120 lb.

DASSEL, 643.

MUNICIPAL.

Vil Pres., Joseph Olson.....Dassel
Recorder, John Clasquist..... "
Engr. P'g. Sta., Victor Bodin..... "

Wells, 2-183 ft. deep; ½ mi. from center distribution.

Pumps, 1-270,000 gal. driven by gasoline engine, 12-hp. Otto; pumping to standpipe (1900) steel & elev. tank, 80,000-gal. wood.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 16, hose con. 3-in. Waterous; meters, 110 National; av. daily cons. 30,000 gal.; serv. con. 150; ord. pres. 54 lb., fire pres. same.

Rates; flat, $7.50 year; meter, min. charge $4.50, 90c. 5000 gal.

DEERWOOD, 586.

MUNICIPAL.

Village Pres., C. C. Adams.....Deerwood
Trustee, Thomas Keating..... "
" John Humphrey..... "
" O. J. Carlson..... "
Vil. Clerk, J. O. Hage..... "
Cons. Engr., Oscar Claussen Co. St. Paul

Serpent Lake & well, 10 ft. diam. 20 ft. deep; near center distribution.

Pump, 1-360,000 gal. vert. simplex Deane 1914 d. con. to elec. motor, 25-hp. 220 v. 3 ph. 60 cys. G. E. 1914; elec. energy from Cuyuna Range Power Company of Deerwood; pumping to elev. tank (1914) 50,000 gal. steel Des Moines Bridge & Iron Co.

Pipe, 1.3 mi. 2 to 8-in. c. i.; hyd. 9, hose con. 2½-in. Waterous; meters, 27 Pittsburgh; serv. con. 20; ord. pres. 40 lb., fire pres. 65 lb.

Rates; meters, min. charge $1.06 quarter 8000 gal., 75c. 1000 gal. max., 40c. min.

DELANO, 1,031.

MUNICIPAL.

Vil. Pres., A. Pogrebe.....Delano
Sec., F. Brander..... "
Supt. & Engr. P'g. Sta. N. G. Sandberg "

Wells, 14 3-in. 50 ft. deep.

Boiler, hor. 75-hp. 110 lb. Watertown 1894; hand stoked; pump, 1-144,000 gal. hor. duplex turbine F. M. 1894; steam engine, 65-hp. hor. Watertown 1894; pumping to elev. tank (1909) 50,000 gal. iron, Minneapolis Steel & Machinery Co.

Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 25, hose con. 2½-in. Waterous; valves, 8 l. h. opening Crane; meters, 90 Pittsburg & Buffalo; av. daily cons. 50,000; serv. con. 90; ord pres. 45 to 55 lb., fire pres. 45 to 125 lb.

Rates, meter, min. charge 25c. mo. 5,000 gal., 40c. 1000 gal., 25c. min.

DETROIT, 2,807.

MUNICIPAL.

Mayor, Casper Wackman.....Detroit
Vil. Clerk, E. J. Bestick..... "
Treas., S. P. Ensign..... "

Detroit Lake; pumps, 2 driven by elec. motors; hyd. 42; meters, 4; serv. con. 189.

Rates: flat, bath $3, closet, $3; meter, 40c. 100 cu. ft. max., 5c. min.

DULUTH, 78,446.

MUNICIPAL.

Comr., Leonidas Merritt.....Duluth
Ch. Engr., E. W. Kelly..... "
Sec., Geo. L. Gross..... "
Supt. Meters, R. A. Casson..... "
Supt. Mains, D. C. Keefe..... "
Ch. Engr. P'g. Sta., Wilson Palmer. "

Lake Superior; 9 mi. from center distribution; chemical, hypochlorite of lime.

Pumps, 1-12,000,000 gal. Morris, 2-5,000,000 gal. vert. triple exp. c. & f. wh. Prescott; elec. motors, 1000-hp. 2200 v. 3 ph. 25 cys. G. E.; pumping to reservoir, 4-32,500,000 gal. and elev. tank, 1-60,000 gal. wood, 2-100,000 gal. ea. steel.

Pipe, 135 mi. 4 to over 30-in. c. i. & steel; hyd. 1001, hose con. 2½-in. mostly R. D. W.; valves, 700 l. h. opening various; av. daily cons. 8,000,000 gal.; ord. pres. 10 to 35 lb.

Rates; meter, 15c. 100 cu. ft. max., 8c. min.

EAST GRAND FORKS, 2,533.

MUNICIPAL.

Supt., Louis Borchers...East Grand Forks

Red River; pumps, steam; hyd. 68; meters, 250.

ELBOW LAKE, 776.

MUNICIPAL.

Well, 8-in.; pumps, steam & driven by gasoline engines; hyd. 22; meters, 96; serv. con. 189.

Rates: flat, bath $2, closet $2; meter, min. charge $5 year; meter, 13c. 1000 gal. max., 7c. min.

ELMORE, 795.

MUNICIPAL.

Mayor, A. K. Anderson.....Elmore
Vil. Clerk, Julius Tore..... "
Treas., W. C. Campbell..... "

Well, 6-in. 115 ft. deep; pumps driven by gasoline engine; hyd. 16; serv. con. 75.

Rates: flat, bath $1 year, closet $2.

ELLSWORTH, 536.

MUNICIPAL.

Vil. Pres., Geo. Pardens.....Ellsworth
Trus., Ed. Fogarty..... "
Vil. Clerk, F. W. Stanton..... "

Well, 3 ft. diam. 50 ft. deep; one-quarter mi. from center business section; no purification.

Pump driven by elec. motor, 4.5-hp. 220 v. Ft. Wayne 1912; pumping to compressed air tank, 30,000 gal.

Hyd. 10, hose con. 2½-in.; ord. pres. 60 lb., fire pres. 80 lb.

Rates; meter, min. charge 75c. mo. 100 cu. ft., 75c. 100 cu. ft.

EVELETH, 7,036.

MUNICIPAL.

Mayor, J. S. Saari.....Eveleth
Clerk, A. T. Roner..... "
Treas., W. J. Davey..... "
Supt., E. Forristal..... "

St. Mary's Lake; pumps, tri. exp.; hyd. 65; meters, 30; serv. con. 1280.

Rates: flat, $6 year; bath $1, closet $1; meter, min. charge $1 quarter, 15c. 1000 gal. max., 10c. min.

EXCELSIOR, 1,015.

MUNICIPAL.

Lake Minnetonka; pumps, driven by elec. motors; hyd. 30.

FAIRFAX, 815.

MUNICIPAL.

Mayor, C. W. Heimann.....Fairfax
Clerk, A. C. Travers..... "
Treas., H. E. Grasmon..... "

Wells; pumps driven by elec. motors; hyd. 15.

Rates: meter, 5c. 100 gal.

FAIRMONT, 2,958.

MUNICIPAL.

Pres. Comrs., F. E. Wade.....Fairmont
V. Pres., Howard Waite..... "
Sec., T. P. Hagerty..... "
Supt. & Engr. P'g. Sta.,
Alfred House..... "

Budd Lake; 1.5 mi. from business center; no purification.

Pumps, 3-2,740,000 gal. Allis C. driven by elec. motor, 185-hp. 220 v. 3 ph. 60 cys. Allis C.; pumping to standpipe (1912) 100,000 gal. steel.

Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 58, hose con. 2½-in. Waterous; valves, 26 l. h. thd. Crane; meters, 420 various; av. daily cons. 400,000 gal.; serv. con. 460; ord. pres. 60 lb., fire pres. 120 lb.

Rates: meter, 35c. 1000 gal. max., 7c. min.

FARIBAULT, 9,001.

MUNICIPAL.

Supt., I. E. Wilson.....Faribault
Engr. P'g. Sta., Herman Pofahl.. "

Artesian wells, 3 to 16-in. 750 to 1385 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 return tubular Williams; hand stoking; pumps, 2-1,750,000 gal. Snow & Deane; pumping direct and to reservoir, 944,000 gal.

Pipe, 20.17 mi. 4 to 12-in. c. i.; hyd. 12, hose con. 2½-in. R. D. W. & Waterous valves, 284 l. h. thd. Eddy; meters, 798

National, Hersey & Neptune; av. daily cons. 389,000 gal.; ord. pres. 60 to 120 lb., fire pres. same

Rates: meter, 30c. 100 cu. ft. max., 7.5c. min.

FARMINGTON, 1,024.

MUNICIPAL.

Pres. Trustees, F. R. Blake.....Farmington
Trustee, W. J. Fletcher..... "
" J. N. Baltes..... "
Sec., T. J. Feely..... "

Wells, 5 6-in. 35 ft. deep; at center distribution.

Pumps, 1-360,000 gal. F. M. d. con. to gasoline engine, 15-hp. F. M.; pumping to elev. tank, 55,000 gal. iron.

Hyd. 30, hose con. 3-in. Waterous; valves, 5 r. h. thd.; av. daily cons. 40,000 gal.; serv. con. 65; ord. pres. 40 to 45 lb., fire pres. 40 to 80 lb.

Rates: flat, 50c. mo.

FERGUS FALLS, 6,887.

MUNICIPAL.

Pres., Geo. B. Lowry.....Fergus Falls
Comr., Frank H. Straub..... " "
" O. H. Lee..... " "
Supt. & Engr. P'g. Sta.,
W. J. Leach..... " "
Consltg. Engr., L. P. Wolff.... " "

Red River & infiltration well; 2½-mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 2 return tubular 75 & 125-hp. Gleen & Brownell; hand stoking; pumps, 4-7,750,000 gal., 3 Worth. & one Wheeler; elec. motors, 2,200 v. 3 ph. 60 cys. G. E.; pumping direct and to reservoir, 750,000 gal.

Pipe, 15-mi. 2 to 30 in. c. i.; hyd. 84, hose con. 2½-in. Ludlow; valves, 70 l. h. thd. Ludlow; meters, 7 Worth., Ludlow & National; av. daily cons. 1,250,000 gal.; serv. con. 987; ord. pres. 70 lb., fire pres. 95 to 100 lb.

Rates: flat, modern house about $15 year.

FERTILE, 614.

MUNICIPAL.

Mayor, John Holten.....Fertile
Clerk, A. O. Gullickson..... "
Treas., E. G. Overland..... "

Artesian wells; pumps driven by gasoline engines; hyd. 18; serv. con. 74.

Rates: flat, $6 year.

FOLEY, 710.

MUNICIPAL.

Supt., Ray Ketcham.....Foley

Well, 8-in. 250 ft. deep; near center distribution; reservoir, 50,000 gal.

Pump driven by gasoline engine, 30-hp. F. M.; pumping to standpipe (1910) steel.

Hyd. 4, hose con. 4-in.; av. daily cons. 3,000 gal.; serv. con. 110; ord. pres. 20 to 50 lb., fire pres. 60 to 85 lb.

FOSSTON, 1,075.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.

Vil. Pres., John Mittun.....Fosston
Sec., U. M. Brandt..... "
Treas., Frank H. Lohn..... "
Supt., H. E. Halvorson..... "
Engr. P'g. Sta., I. Nelson..... "

Wells; boiler, 150-hp. Ide; pumps, steam; hyd. 14; serv. con. 50.

Rates: flat, $5 year.

FULDA, 743.

MUNICIPAL.

Mayor, O. C. Rausse.....Fulda
Clerk, A. G. Tierney..... "
Treas., J. J. Schueller..... "

Deep wells; pumping to elev. tanks; hyd. 17; meters, 8; serv. con. 46.

Rates: flat, $5 year, bath $3, closet $3; meter, min. charge $1.25 quarter, 5c. 100 gal. max., 2c. min.

GLENCOE, 1,788.

MUNICIPAL.

Comr., Frank W. Hayden.....Glencoe
Supt. & Engr.Pg. Sta.,Fred Rodgers "
Registrar, Peter Hatz..... "

Well, 8-in. 1600 ft. deep; ¼ mi. from center distribution; reservoir, 100,000 gal. wood.

Pumps, one F. M., one Keystone driven by gasoline engines, 20-hp. Keystone; elec. motors, 2-15-hp. ea. 320 v. 3 ph. 60 cys. F. M.; pumping to elev. tank, 100,000 gal. wood.

Pipe, 4.65 mi. 4 to 12-in. c. i.; hyd. 41, hose con. 2½-in. Waterous; valves, 38 Eddy; meters, 208 Buffalo; av. daily cons. 90,000 gal.; serv. con. 208; ord. pres. 55 to 65 lb., fire pres. same.

Rates: flat, $1.50 quarter; meters, 30c. 1000 gal. max., 20c. min.

GLENWOOD, 2,161.

MUNICIPAL.

Supt., J. L. McLaury.....Glenwood
City Clerk, M. P. Norling..... "

Springs & impounding reservoir; one mi. from center distribution.

Gravity distribution; hyd. 70, hose con. 2½-in. Waterous; meters, 300 Pittsburgh; ord. pres. 70 lb., fire pres. same

Rates: meter, min. charge $1.25 quarter, 25c. 1000 gal. max., 7c. min.

GRACEVILLE, 987.

MUNICIPAL.

Mayor, Frank Valere.....Graceville
Clerk, William McDonnell..... "
Treas., A. J. McRea..... "

Wells, 2 6 & 8-in. 500 ft. deep; pumps driven by elec. motor; hyd. 21; meters, 225.

Rates: meter, min. charge $8 year, 80c. 100 cu. ft. max., 25c. min.

GRAND MEADOW, 552.

MUNICIPAL.

Mayor, T. J. Grimes.....Grand Meadow
Clerk, A. S. Schlerger..... " "
Treas., C. W. Hibbs..... " "

Well, 150 ft. deep; pumps driven by gas engine; hyd. 15; serv. con. 50.
Rates; flat, $5 year.

GRAND RAPIDS, 2,230.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Comr., Henry Hughes.....Grand Rapids
" H. D. Powers..... " "
" B. D. Finnigan..... " "
Clerk, R. L. Trask..... " "
Supt., F. S. Leonard..... " "

Boiler, 250-hp. Ryan; steam engines, 200-hp. Ide.

GRANITE FALLS, 1,454.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, E. G. Hawkins.....Granite Falls
Clerk, C. M. Marcuson..... " "
Treas., W. L. Kraemer..... " "
Supt., E. Bickers..... " "

Oil engines, 170-hp. Diesel; water-turbine, 240-hp. Smith.

HALLOCK, 910.

MUNICIPAL.

City Clerk, A. M. Nelsestuen....Hallock

Two Rivers; near center distribution; reservoir, 100,000-gal.

Pumps, 1-432,000 gal. Goulds driven by gasoline engines, 22-hp. F. M.; pumping to elev. tank, 100,000 gal. wood.

Pipe, 2 mi. 4 to 12-in.; hyd. 17, hose con. 2½-in. Waterous; meters, 3; av. daily cons. 40,000 gal.; serv. con. 75.

Rates: flat, $5 year; meters, 5c. 100 gal. max., 2c. min.

HANCOCK, 534.

MUNICIPAL.

Mayor, Chris. Rygh.....Hancock
Clerk, C. G. Denn..... "
Treas., A. S. McKellar..... "

Well, 8-in. 115 ft. deep; pumps, driven by gas engines; hyd. 20; meters, 7; serv. con. 79.

Rates: flat, $5 year, bath $5, closet $3; meter, min. charge $5 year, 40c. 1000 gal. max., 25c. min.

HARDWICK, 292.

MUNICIPAL.

Pres., J. P. Kennedy.....Hardwick
Recorder, J. B. Iverson..... "
Supt. & Engr. P'g. Sta.,
J. H. Matthiesen..... "

Deep well; near center distribution; no purification.

Pump, one F. M. belted to gasoline engine, 25-hp. F. M.; pumping to air tank, 10 x 38 ft.

Hyd. 11, hose con. 2½-in.; meters, 40 Buffalo; av. daily cons. 7,000 gal.; serv. con. 11; ord. pres. 55 to 70 lb., fire pres. 85 lb.

Rates: flat, 50c. mo.; meters, 15c. 1000 gal.

HASTINGS, 3,983.

MUNICIPAL.

Chm. Conrs., H. P. Sheon..... Hastings
Comr., L. E. Niedere..... "
Comr., A. Willson..... "
City Clerk, J. H. Twichell..... "
Supt., W. S. Tuttle..... "
Cons. Engr., L. W. Clarke.....Stillwater
Engr. P'g. Sta., Peter Schoen..... Hastings

Deep well, 12-in. 475 ft. deep; near center business section; no purification.

Pump, 1-500,000 gal. vert. triplex Deming 1908 d. con. to gasoline engine, 32-hp. Fairbanks Morse 1908; pumping to standpipe (1908) 165,000 gal.

Pipe, 4.25 mi. 6 to 12-in. c. i.; hyd. 54, hose con. 2½ to 4-in. Waterous; valves, 22 r. h. opening Eddy; meters, 165 National; av. daily cons. 85,000 gal.; ord. pres. 35 to 75 lb., fire pres. by means of fire engine.

Rates: meter, min. charge 50c. mo. 2500 gal., 20c. 1000 gal. max., 12c. min.

HAWLEY, 800.

MUNICIPAL.

Pres. Comrs., H. F. Medsing.....Hawley
Comr., H. P Gundersen..... "
City Clerk, J. E. Johnson..... "
Supt. & Pur. Agt., N. A. Lee..... "

Well, 8-in. 128 ft. deep; near center business section, no purification.

Pump, 1-520,000 gal. hor. centrifugal Morris 1909 belted to producer gas engine, 75-hp. F. M. 1909; pumping to compressed air tank, 50,000 gal.

Pipe, 2 mi. 2 to 6-in.; hyd. 16, hose con. 3-in.; valves 7 r. h. opening; meters, none; av. daily cons. 25,000 gal.; serv. con. 65; ord. pres. 60 to 70 lb., fire pres. 90 to 110 lb.

Rates: flat, $6 year, bath $3, closet $3.

HECTOR, 866.

MUNICIPAL.

Mayor, A. D. Anderson.....Hector
Clerk, H. A. Reed..... "
Treas., H. L. Torbenson..... "

Well, tubular; pumps driven by gasoline engine; hyd. 10; meters, 23.

Rates: meter, 5c. 100 gal.

HENDERSON, 753.

MUNICIPAL LIGHT & WATERWORKS.

Supt., H. Bisson.....Anderson

Boiler, 80-hp.; steam engine, 70-hp. Allfree.

HIBBING, 8,832.

MUNICIPAL WATER & LIGHT PLANT.

Chmn. Comrs., John Currans.....Hibbing
Comr., Fred M. Smith..... "
" W. J. Ryder..... "
Sec., D. D. Healy..... "
Supt., C. B. Waymire..... "

Wells, 6 tubular; 4 mi. from center business section; reservoir, 1,000,000 gal.

Boilers, 6 hor. fire tube 1000-hp. 125 lb. 1905; pump, 1-1,000,000 gal. hor. tri. exp. d. act. Prescott 1910, 1-500,000 gal. hor. comp. d. act. Prescott 1904, 2-1,000,000 gal., ea. vert. triplex 1915 driven by elec. motor

2-1,500,000 gal. hor. centrifugal 1915 d. con. to elec. motor; steam engine, one 350-hp. 1900, two 150 & 200-hp. Ball 1905; elec. motors, two 75-hp. ea., 150-hp. & 50-hp. all 440 v. 3 ph. 60 cys. 1915; elec. energy from Great Northern Power Co. pumping to elev. tank (1915) 300,000 gal. steel Amer. Bridge Co.

Pipe, 4 to 18-in.; hyd. 80, hose con. 2½-in. R. D. W.; valves, 250 l. h. opening; av. daily cons. 1,300,000 gal.; ord. pres. 60 lb., fire pres. 110 to 150 lb.

Rates: flat, $2.50 quarter.

HOWARD LAKE, 626.

MUNICIPAL.

Vil. Recorder, Geo. E. Meones, Howard Lake

Lake Howard; pumps, driven by elec. motor; hyd. 24; serv. con. 100.

HUTCHINSON, 2,368.

HUTCHINSON LIGHTING & MFG. CO. (Controlled by Northwest Light & Power Co.).

Pres., John D. Curtis,
55 Wall St., New York, N. Y.
V. Pres. & Mgr., Thos. Tipps..Hutchinson
Treas., C. Campbell.....Huron, S. Dak.

Artesian well; pumps, steam; hyd. 45; meters, 175.

Rates: meter, min. charge $2.50 year, 25c. 1000 gal.

INTERNATIONAL FALLS, 1,487.

MUNICIPAL.

Mayor, W. Z. Cane.....International Falls
Clerk, L. T. Fraser..... " "
Treas., N. L. Olson..... " "

Rainey River; pumping by Minnesota & Ontario Power Co.

JACKSON, 1,907.

MUNICIPAL.

Mayor, R. C. Nuis.....Jackson
Clerk, John Qualey..... "
Treas., J. J. Tribyl..... "
Supt., John Nagel..... "

Wells; pumps, steam; hyd. 31; meters, 10; serv. con. 122.

Rates: flat, 50c. mo., bath 25c., closet 25c.; meter, 5c. 100 gal. max., 2c. min.

JANESVILLE, 1,173.

MUNICIPAL.

Supt., Wm. S. Scott.....Janesville

Well, 10-in. 300 ft. deep; no purification.

Pumps, one Hill driven by elec. motor, 220 v. s. ph. 60 cys. G. E.; pumping to elev. tank (1908) 65,000 gal. steel.

Pipe, 3-mi. 4 to 12-in. c. i.; hyd. 11, hose con. 2½-in. Waterous; valves, l. h. thd. Waterous; av. daily cons. 2000 gal.; serv. con. 132; ord. pres. 45 lb., fire pres. same.

Rates: flat, min. $6 year; meters, 40c. 1000 gal. max., 15c. min.

JASPER, 704.

MUNICIPAL.

Supt., Eli Iverson.....Jasper
Vil. Recorder, P. E. Pederson..... "

Springs & wells, 5-10 ft. in diam. 10 ft. deep; ¼ mi. from center distribution; no purification.

Pumps driven by gasoline engine, 12-hp. Johnson; pumping direct & to elev. tanks (1914) 75,000 gal. steel.

Pipe, 3 mi. 4 to 6-in. c. i.; hyd. 26, hose con. 2½-in. Waterous; av. daily cons. 6000 gal.; serv. con. 230; ord. pres. 45 lb., fire pres. same.

JORDAN, 1,151.

MUNICIPAL.

Mayor, S. Peter Hilgers.....Jordan
Clerk, A. N. Schaefer..... "
Treas., Geo. D. Strait..... "

Wells; pumps, steam; hyd. 12; meters, 4.

Rates: meter, 3.25c. 100 gal.

KASSON, 932.

MUNICIPAL.

Vil. Pres., H. W. Brown.....Kasson
Sec., Geo. Little..... "
Supt. & Engr. P'g. Sta.,
E. W. Stembuck..... "

Well, 6-in. 300 ft. deep; reservoir, 25,000 gal.; no purification; pumping to elev. tank, steel.

Pipe, 6 mi. 6 & 8-in. c. i.; hyd. 40, hose con. 3½-in.; meters, 200 Pittsburg; av. daily cons. 15,000 gal. 80%; serv. con. 225; ord. pres. 65 lb., fire pres. same.

KEWATIN, 695.

MUNICIPAL.

City Clerk, Chas. Extrum.....Kewatin
Supt., Chas. G. Adams..... "
Cons. Engr., C. C. Ferguson..... "

Well, 6 x 8 ft. 222 ft. deep; near business center; reservoirs, 2-118,000 gal.

Boilers, 2 return tubular 150-hp. Kewanee 1914; hand stoking; pumps driven by steam engine, Ingersoll-Rand 1915; pumping to elev. tank (1906) 38,000 gal.

Pipe, 5 mi. 6-in. & smaller c. i.; hyd. 12, hose con. 2½-in.; av. daily cons. 70,000 gal.; serv. con. 200; ord. pres. 45 to 100 lb., fire pres. 100 to 125 lb.

KELLIHER, 294.

MUNICIPAL.

Mayor, Wm. Lennon.....Kelliher
Recorder, Henry Pfund..... "
Supt. & Engr. P'g. Sta., J. A. Wilson "

Well, 4½-in. 168 ft. deep; ¼ mi. from center distribution; no purification.

Boiler, tub. 60-hp. Williams; hand stoking; pumps, 1-172,800 gal. F. M.; pumping to elev. tanks, 90,000 gal.

Pipe, 0.75 mi. 4 to 12-in.; hyd. 7, hose con. 3-in. Knott; valves, 6 r. h. thd.; meters, none; av. daily cons. 30,000 gal.; serv. con. 50; ord. pres. 30 to 45 lb., fire pres. same.

KENYON, 1,237.

MUNICIPAL.

Vil. Clerk, Albert Hilstod.....Kenyon
Engr. P'g. Sta., Ben Oehman..... "

Deep well; at center distribution.

Boilers, hor. 50-hp.; hand stoking; pumps, 1-129,600-gal. Keystone; pumping to elev. tank, 60,000 gal. steel.

Pipe, 4.5 mi. 4 to 12-in.; meters, 115 Pittsburgh; av. daily cons. 13,500 gal.; serv. con. 125; ord. pres. 50 lb., fire pres. same.

Rates; meter, min. charge $2 6-mo. 4000 gal., 40c. 1000 gal. max., 15c. min.

LAKE BENTON, 844.

MUNICIPAL.

Mayor, J. W. Jenkins.....Lake Benton
Vil. Recorder & Supt.,
E. M. Kimball..... " "
Engr.P'g.Sta.,James Grounsell " "

Well, 16 ft. in diam. 18 ft. deep; ½ mi. from center distribution.

Boilers, tub. 60-hp. Williams; pumps, 1-384,000 gal. Gorden; pumping to reservoir, 110,000 gal.

Pipe, 4.5 mi. 4 to 8-in.; hyd. 12, hose con. 2½-in. Eureka; valves, 10 r. h. thd. Crane; meters, 53 Buffalo; av. daily cons. 18,000 gal.; serv. con. 53; ord. pres. 85 to 90-lb., fire pres. 100 to 120 lb.

Rates; all meter, min. charge $2 quarter 267 cu. ft., 20c. 100 cu. ft.

LAKE CITY, 3,142.

MUNICIPAL. LAKE CITY ELECTRIC LIGHT & WATER PLANT.

Supt., M. J. Howe.....Lake City
Pres. Bd., J. Cole Doughty..... " "
V. Pres., D. C. McKendie..... " "
City Clerk, E. R. Paterick..... " "

Artesian well, 15 ft. in diam. 40 ft. deep; ½ mi. from center distribution; no purification.

Boiler, 2 water-tube 300-hp. B. & W.; hand & mechanical stoking, Tyler; pumps, 1-1,000,000 gal. F. M., 1-1,000,000 gal. Deane driven by elec. motors, 50-hp. 2300 v. 3 ph. 60 cys. Wagner; pumping direct and to reservoir, 500,000 gal.

Pipe, 15 mi. 4 to 30-in. c. i.; hyd. 78, hose con. 2½-in.; valves, 54 r. h. thd. R. D. W.; meters, 450 National; av. daily cons. 112,000 gal.; serv. con. 450; ord. pres. 85 to 87 lb., fire pres. 85 to 130 lb.

LAKE CRYSTAL, 1,200.

MUNICIPAL.

Supt., J. H. Jones.....Lake Crystal
City Clerk, W. P. Cobb..... " "

Wells, 700 ft. deep; from center distribution; no purification.

Pumps, driven by elec. motor; elec. energy from Consumers Power Corp.; pumping to standpipe, iron.

Pipe, 4,000 ft. 4 to 12.-in. c. i.; hyd. 10, hose con. 3-in.; meters, none; serv. con. 40; ord. pres. 60 lb.

Rates: flat, 50c. a month.

LAKEFIELD, 924.

MUNICIPAL.

Vil. Pres., E. A. Gage.....Lakefield
Supt. & Engr. P'g. Sta.,
J. J. Hartwick..... "

Wells, 8-in. 190 ft. deep; reservoir, 1900 gal.

Boilers, 2 return tubular 80 and 100 hp., Williams; pumps, 2.

Serv. con. 40 lb.; ord. pres. 40 lb., fire pres. 100 to 110 lb.

LAMBERTON, 652.

MUNICIPAL.

Mayor, K. A. Koenig.....Lamberton
Clerk, Tony Traxel..... "
Treas., George Kluegel..... "

Wells; pumps driven by gasoline engine; hyd. 10; meters, 125; serv. con. 133.

Rates: flat, 75c. mo.; meter, 3c. 100 gal.

LANESBORO, 987.

MUNICIPAL.

Mayor, C. H. Schansberg.....Lanesboro
Clerk, Jacob Wahl..... "
Treas., P. A. Nelson..... "

Artesian wells; pumps driven by elec. motor; hyd. 21; serv. con. 145.

Rates: flat, $5 year.

LE SEUR, 1,755.

MUNICIPAL.

Supt., Geo. Sunderman.....Le Seur

Artesian well, 8-in. 668 ft. deep; near center business section.

Pump, 1-240,000 gal. vert. triplex Goulds 1896 belted to elec. motor; pumping to standpipe (1896) 223,000 gal.

Pipe, 6 mi.; hyd. 55, hose con. 2½-in. Waterous; valves 11 l. h. opening; meters, 195 Pittsburg; av. daily cons. 100,000 gal. 75%; serv. con. 400; ord. pres. 70 lb., fire pres. 70 to 125 lb.

Rates: flat, $5.25 year, bath $2.25, closet $3.00; meters, min. charge $3.00 year, 20c. 1000 gal.

LE SEUR CENTER, 741.

MUNICIPAL.

Mayor, L. W. Prendergast..Le Seur Center
Clerk. Thos. Murphy..... " " "
Treas., John Butler..... " " "

Well, 383 ft. deep; pumps, driven by elec. motors; hyd. 22; meters, 60.

Rates: meter, $1.50 1000 cu. ft.

LINDSTROM, 522.

MUNICIPAL.

Mayor, P. M. Suvist.....Lindstrom
Clerk, E. W. Ogren..... "
Treas., O. S. Lindstrom..... "

Wells; pumps driven by gasoline engine; hyd. 5; meters, 38.

Rates: meter, min. charge 40c. mo., 30c. 1000 gal.

LITCHFIELD, 2,633.

MUNICIPAL.

Mgr. & Engr., E. Edelson.....Litchfield

Wells, 48 2-in.; pumps, steam; hyd. 30; meters, 200.

Rates: meter, min. charge $4 6 mo., 40c. 1000 gal. max., 10c. min.

LITTLE FALLS, 6,078.
LITTLE FALLS WATER POWER CO.
Pres., J. L. McCague..... Omaha, Nebr.
V. Pres., F. H. Parsons....New York, N.Y.
Sec., Treas. & Gen. Mgr.,
T. C. Gordon..... ....Little Falls
Supt., G. M. Gordon..... " "
Mississippi River; chemical hypochlorite of lime.
Pumps, 1-1,000,000 gal. hor. Gordon 1892, 1-1,250,000 gal. vert. tri. Platt 1902 driven by wtr. turbine, two 125-hp. ea. Dayton & Smith; pumping direct.
Pipe, 7 mi. 4 to 12-in. c. i.; 165 hose con. 2½-in.; meters, 75 Neptune; av. daily cons. 1,000,000 gal.; serv. con. 350; ord. pres. 60 lb., fire pres. 100 to 150 lb.
Rates: flat $6 a year, bath $6, closet $4; meters, min. charge $1 mo. 3333 gal., 40c. 1000 gal. max., 4c. min.

LONG PRAIRIE, 1,250.
MUNICIPAL.
Mayor, A. D. Gay.....Long Prairie
Clerk, W. G. Anderson..... " "
Treas., E. H. Kohlby..... " "
Well, 8-in. 180 ft. deep; pumps, steam; hyd. 22; meters, 67; serv. con. 92.
Rates: flat, $3.50 year; meter, 25c. 1000 gal.

LUVERNE, 2,540.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Pres., H. Dierkamp.....Luverne
V. Pres., W. H. White..... "
Supt., J. H. Hughes..... "
Wells near rivers; boiler, 250-hp. Springfield; pumps, steam; steam engines, 150-hp. Twin City; hyd. 50; meters, 450.
Rates: meter, min. charge $1.25 for 300 cu. ft., 10c. 100 cu. ft. max., 6c. min.

LYLE, 552.
MUNICIPAL.
Supt., Gill Ferris.....Lyle
Deep well; pumps driven by gasoline engines; hyd. 11; meters, none; serv. con. 21.
Rates: flat, $5 year; meter, 30c. 1000 gal.

MADELIA, 1,273.
MUNICIPAL.
Mayor, E. L. Gove.....Madelia
Clerk, C. P. Dahl..... "
Treas., M. S. Bassett..... "
Wells; pumps, steam; hyd. 34; meters, 140.
Rates: meter, min. charge $1 quarter, 4c. 100 gal.

MADISON, 1,811.
MUNICIPAL.
Supt. & Engr. P'g. Sta., J. S. Bang, Madison
Artesian well, 6 & 10-in. 200 ft. deep, near center business section.
Boilers, 2 150-hp. ea. 120 lb. 1913; hand stoking; pump jack driven by elec. motor, 10-hp. 3 ph.; pumping to elev. tank (1913) 100,000 gal., Chicago Bridge & Iron Works.
Pipe, 5 mi. 4 to 10-in.; hyd. 40; valves, r. h. opening; meters, 25 Pittsburgh; serv. con. 25; ord. pres. 40 lb., fire pres. 80 lb.
Rates: meter, min. charge 50c. mo., 35c. 1000 gal. max., 20c. min.

MAHNOMEN, 796.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Pres. Bd., H. L. Thompson....Mahnomen
Sec., Geo. O. Lee..... "
Treas., H. F. Frazer..... "
Supt., J. Heiberg..... "
Engr. P'g. Sta., J. Sukep..... "
Well, 5-in. 60 ft. deep; pumps, steam; hyd. 3.
Rates: flat, $8 year.

MANKATO, 10,365.
MUNICIPAL.
Com., C. R. Bradley.....Mankato
Supt., H. F. Blomquist..... "
Engr., P'g. Sta., Chas. F. Lenz.... "
Artesian wells, 4-650 to 334 ft. deep; near center distribution; no purification.
Boilers, 2 tubular 125 hp. ea. Mankato; hand stoking.
Pumps, 2-3,000,000 gal. Holly & Knowles, centrifugal d. con. to elec. motor, 15 kw. 220 v. 3 phase 60 cys. Fort Wayne; pumping to reservoir, 800,000 gal. & elev. tank, 50,000 gal. steel.
Pipes, 18.8 mi., 4 to 6-in. c. i.; hyd. 194, hose con. 2½ and 4-in. R. D. W., Holly & Ludlow; valves, 132 r. h. opening, Eddy; meters, 1542 National, Pittsburgh, Neptune & Hersey; av. daily cons. 715,000 gal.; serv. con. 1542; ord. pres. 55 to 103 lb., fire pres. 103.
Rates: meters, 90c. per 1000 cu. ft. max., 45c. min.

MAPLETON, 809.
MUNICIPAL.
Vil. Pres., Henry Pagel.....Mapleton
" Clerk, G. W. Ackerman..... "
Supt., Wm. Prenzloe..... "
Well, 10-in. 404 ft. deep; near center business section; pumps driven by gas engine, 15-hp. F. M. 1900; pumping to elev. tank (1899) 100,000 gal. wood & steel F. M.
Pipe, 2 mi. 4 & 6-in. c. i.; hyd. 15, hose con. 2½-in.; valves 6, r. h. opening; meters, 75 National; av. daily cons. 10,000 gal. 75%; serv. con. 85; ord. pres. 50 lb., fire pres. same.
Rates: flat, $3 year; meter, min. charge $1.50 six mos. 5000 gal., 30c. 1000 gal.

MARBLE, 887.
MUNICIPAL.
Mayor, R. T. Fitzgerald.....Marble
Clerk, R. S. Curran..... "
Treas., Chas. Liese..... "
Mining drift of the Oliver Iron Mining Co., 211 ft. deep; pumps, steam; pumping to elev. tank, 100,000 gal.; meters, 25; serv. con. 125.

Rates: flat, 50c. mo.; meter, min. charge 50c. mo., 30c. 1000 gal. max., 20c. min.

MARSHALL, 2,152.

MUNICIPAL.

Mayor, Robt. Heilman.....Marshall
Clerk, H. E. Persons..... "
Treas., H. M. Harmon..... "

Artesian wells; pumps, steam; hyd. 41; meters, 175.

Rates: meter, min. charge 50c. mo.; 20c. 100 cu. ft. max., 15c. min.

MELROSE, 2,591.

MUNICIPAL WATERWORKS & ELECTRIC LIGHT PLANT.

Chmn. Comrs., W. F. Unger.....Melrose
Comr., E. W. Quinn..... "
" Chas. Kramer..... "
Supt., C. M. Karlson..... "
Engr. P'g. Sta., Wm. Karlson..... "

Sauk River; boiler, 250-hp. Williams; pumps, steam & driven by elec. motors; steam engines, 125-hp. Twin City; hyd. 25; meters, 20; serv. con. 200.

Rates: flat, $5 year, bath $2, closet $2; meter, 15c. 100 cu. ft. max., 10c. min.

MILACA, 500.

MUNICIPAL WATER, LIGHT & BOULEVARD COMMISSION.

Pres. Comr., Wm. Carlson.....Milaca
Comrs., K. Elingboe..... "
" C. H. Hammeburg..... "
Sec., Miss Lillian Foss..... "
Supt. & Engr. P'g. Sta., J. A. Kaliher "

Rum River & well, 10 ft. diam. 60 ft. deep; no purification.

Boilers, 2 tubular 70-hp. 80 lb. Atlas 1906; h. stoking; pumps, 1-1,100,000 gal. vert. tri. exp. c. & f. wh. Rumsey 1906, one vert. single Burnham; steam engine, 100-hp. Buckeye; elec. motor, 20-hp. 220 v. s. ph. Westinghouse 1906; pumping to elev. tank (1906) 60,000 gal. steel Des Moines Bridge & Iron Works.

Pipe, 2 mi. 8-in. c. i.; hyd. 6, hose con. 3-in. Waterous; valves, 4; meters, 40 various; av. daily cons. 22,000 gal.; serv. con. 100; ord. pres. 55 lb., fire pres. same.

Rates: meters, min. charge $1.50 quarter, 22.5c. 100 cu. ft.

MINNEAPOLIS, 301,408.

MUNICIPAL.

City & Des. Engr., F. W. Coppelen. Minneapolis
Supt., J. A. Jensen..... "
" Filtration, L. I. Birdsall.. "
Chief Engr. P'g. Sta., E. C. York.. "

Mississippi River; 6 mi. from center distribution; set. basin 75,000,000 gal.; coagulating basins, 4-2,800,000 gal. ea.; mech. filters, 60,000,000 gal.; chemicals, hypochlorite of lime and sulphate of alumina.

Boilers, 6 Scotch marine 160-hp. ea. Glenn, 4 water-tube 250-hp. ea. Edge Moor; hand stoking; pumps 2-15,000,000 gal. ea. steam Worth., 2-15,000,000 gal. tri. exp. Holly, 2-20,000,000 gal. ea. turbine Worth. driven by elec. motors, 1200-hp. 2300 v. 3 phase, 50 cyc. Westg.; elec. energy from Minneapolis Gen. Elec. Co.; pumping to reservoir, 45,000,000 gal., standpipes, 2 steel.

Pipes, 531.4 mi. 6 to over 30 in. c. i.; hyd. 5236, hose con. 2½ and 4-in. R. D. W. and Columbian; valves, 4900 l. h. thd. Eddy, Rensellaer, Roe Stephens and Kennedy; meters, 45,000 var.; av. daily cons. 24,000,000 gal.; serv. con. 49,900; ord. pres. 26 to 80 lb., fire pres. same.

Rates: meter, 8c. 1,000 gal. max., 4c. min.

MINNESOTA LAKE, 445.

MUNICIPAL.

Vil. Clerk, E. N. Kremer..Minnesota Lake

Wells, 2 6-in. 286 ft. deep; reservoir, 150,000 gal.

MINNEOTA, 819.

MUNICIPAL.

Mayor, S. A. Anderson.....Minneota
Clerk, S. V. Erickson..... "
Treas., L. M. Lerwick..... "

Wells; pumps driven by gasoline engines; Lyd. 35; meters, 15; serv. con. 75.

Rates: flat, $5 year, bath $2, closet $3; meter, 45c. 1800 gal.

MONTEVIDEO, 3,056.

MUNICIPAL.

Mayor, A. L. McCargar.....Montevideo
Clerk, A. M. Parks..... "
Treas., J. O. Anderson..... "
Supt., W. E. Cosgriff..... "

Springs; reservoir; pumps, 1,000,000 gal. driven by gasoline engine & elec. motors; pumping to elev. tank, 100,000 gal.; hyd. 92; meters, 400.

Rates; meter, min. charge $5 year, 15c. 100 cu. ft. max., 10c. min.

MONTGOMERY, 1,267.

MUNICIPAL.

Vil. Pres., W. Augst.....Montgomery
" Clerk, J. A. Kaisersott.... "
Supt. & Engr. P'g. Sta.,
Vincent Brabec..... "

Well, 8-in. 237-ft. deep; in center business section.

Pump, 1-17,000 gal. F. M. 1900 geared to gas engine, 5-hp. F. M. 1900; pumping to elev. tank (1900) 52,000 gal. steel.

Pipe, one mi. 6 & 8-in. c. i. & steel; hyd. 23; valves, r. h. opening Crane; meters, 62 Pittsburgh; av. daily cons. 17,000 gal. 75%; serv. con. 62; ord. pres. 42 lb., fire pres. same.

MOORHEAD, 4,840.

MUNICIPAL WATER & LIGHT PLANT.

Pres. Comrs., H. E. Roberts.....Moorhead
Sec., Fred Johnson..... "
Comr., A. Erickson..... "
Clerk, R. G. Price..... "
Supt., A. J. Warner..... "

Red River & artesian wells, 2 10-in.; boiler, 404-hp. B. & W.; pumps, 1-150,000 gal. Luitweiler, 1-238,000 gal. Downie,

1-150,000 gal. centrifugal; pumping direct; hyd. 134; meters, 468.

Rates; meter, 40c. 100 cu. ft. max., 5c. min.

MORGAN, 553.

MUNICIPAL,

Mayor, J. C. Jackson.....Morgan
Clerk, J. A. Hartwick..... "
Treas., E. B. Grabow..... "

Deep well; pumps driven by gasoline engine, 15-hp.; hyd. 20.

MORRIS, 1,685.

MUNICIPAL.

Mayor, E. J. Jones.....Morris
Comr., J. R. Krueger..... "
" N. Vinje..... "
City Mgr., S. A. Siverts, Jr..... "

Wells, 5 4-in. 60 ft. deep; 1.25 mi. from center business section.

Pumps, 1-410,000 gal. vert. triplex Goulds 1898 d. con. to gasoline engine, 1-10,000 gal. vert. triplex Gould 1898 d. con. to gasoline engine, 1-534,000 gal. vert. centrifugal Platt 1914 d. con. to elec. motor, 50-hp. 2200 v. 3 ph. 60 cys. G. E. 1914; pumping to elev. tank (1897) 60,000 gal. steel.

Pipe, 7.85 mi. 4 to 10-in. c. i.; hyd. 49, hose con. 2½-in. Waterous; valves, 46 l. h. opening various; meters, 360 various; av. daily cons. 100,000 gal. 65%; serv. con. 367; ord. pres. 40 to 54 lb., fire pres. 80 lb.

Rates: meter, min. charge $3 six mo. 2000 gal., 55c. 1000 gal. max., 12c. min.

MOUNTAIN LAKE, 1,081.

MUNICIPAL.

Mayor, J. H. Bickman.....Mountain Lake
Clerk, W. A. Nickel..... " "
Treas., Frank J. Jensen.... " "

Pumps driven by gasoline engines; hyd. 23; serv. con. 127.

Rates: flat, 50c. mo.

NASHWAUK, 2,080.

MUNICIPAL WATER & LIGHT COMMISSION.

Pres., B. W. Batchelder.....Nashwauk
Sec., John H. Carlson..... "
Treas., Arvid Mattila..... "
Supt., G. A. Lindsay..... "
Engr. P'g Sta., R. M. Golden.... "
" " " M. Saloneus.... "

Deep wells; boiler, 200-hp. Northern; pumps, steam; hyd. 25; serv. con. 200.

Rates: flat, 50c. mo., bath 40c., closet 50c.

NEW PRAGUE, 1,554.

MUNICIPAL ELECTRIC LIGHT & WATER WORKS DEPT.

Chm. Comrs., John Homer....New Prague
Com., S. A. Vopatek..... " "
" Albert Bartyzab..... " "
Supt. & Engr. P'g. Sta.,
Joseph T. Rynda..... " "

Wells, 2-8-in. 300 ft. deep.

Boilers, 2, hor. fire-tube 110-hp. ea. Williams; hand stoking; pumps, 1-518,000 gal. pumping to elev. tank 70,000 gal. Wood.

Pipes, 2 mi. 4 to 12-in. c. i.; hyd. 25, hose con 2½ in. Waterous; waves, 5, r. h. thd. Crane, meters, 105, Pittsburgh National and Buffalo; av. daily cons. 3,500 gal.; serv. con. 105; ord. pres. 38 to 42 lb., fire pres. 38 to 80 lb.

Rates: all meters, 5c. 100 gal. max., 3c. min.

NEW RICHLAND, 685.

MUNICIPAL.

Mayor, S. H. Krueger.....New Richland
Clerk, J. S. Stillane..... " "
Treas., H. E. Johnson..... " "

Deep well; pumps driven by elec. motors; pumping to elev. tank; hyd. 18; meters, 4; serv. con. 78.

Rates: flat, $5 year; meter, 25c. 1000 gal.

NEW ULM, 5,648.

MUNICIPAL WATER & LIGHT PLANT.

Chm. Comrs., C. F. Ruencke.....New Ulm
City Clerk, Wm. Baeker..... " "
Supt., A. J. Mueller..... " "
Engr. P'g. Sta., R. E. Deplin..... " "

Wells, 4 6 to 12-in. 185 to 365 ft. deep; ¼ mi. from business center; reservoirs, 2-1,085,000 gal.; settling basin, 1-85,000 gal.

Boilers, 4 tubular 150-hp. ea. 125 lb. Williams 1904 & 1914; hand stoking; pumps, 2-200,000 gal. vert. simple d. act. Cook & Deane 1889, 1-600,000 gal. vert. tri. exp. c. & f. wh. Deane 1889, 1-1,000,000 gal. hor. comp. d. act. Platt 1889, 1-350,000 gal. vert. duplex Luiteweiler 1906 belted to elec. motor, 30 kw. 2200 & 2 pl. 60 cys. G. E.1906; steam engines, 200-hp. Corliss-Lane & Bodley 1902, 600-hp. high speed McIntosh & Seymour 1914; elec. generators, 175 & 312 Kva. ea. Elec. Mach. Co.; pumping to reservoir, 1,000,000 gal. & elev. tanks, 2 (1910) concrete.

Pipe, 12 mi. 6 & 8-in. c. i.; hyd. 104, hose con. 3-in. Ludlow; valves, 112 r. h. opening Crane; meters, 800 various; av. daily cons. 400,000 gal. 90%; serv. con. 810; ord. pres. 75 to 80 lb., fire pres. 75 to 125 lb.

Rates; meter, min. charge $5 year, 4c. 1000 gal. max., 1c. min.

NORTH ST. PAUL, 1,404.

MUNICIPAL.

Mayor, Emil Karnugh....North St. Paul
Clerk, W. F. Henning..... " " "
Treas., A. A. Lawson..... " " "

Deep well & lake; pumps, steam; hyd. 27; meters, 10.

Rates; meter, 25c. 1000 gal. max., 15c. min.

NORTHFIELD, 3,265.

MUNICIPAL.

Supt., C. W. Streeter.....Northfield
City Engr., F. O. Rice..... "

Flowing artesian well; ¼ mi from center distribution.

Boiler, tubular 75-hp. (reserve); pumps, 1-1,000,000 gal. Gordon (reserve); elec. motors, 220 v. 3 ph. 60 cys. Ft. Wayne; pumping direct & to reservoir, 240,000 gal.; standpipe (1894) steel.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 8, hose con. 2½-in.; av. daily cons. 204,000 gal.; serv. con. 453; ord. pres. 85 lb., fire pres. 150 lb.

Rates: meter, min. charge $1.50 quarter 1000 cu. ft., 15c. 100 cu. ft. max., 5.5c. min.

NORTHOME, 300.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
T. C. Engelking.....Northome
Lake; no purification.

Boilers, vert. 10-hp.; hand stoking; pump, 1-144,000 gal.; pumping to elev. tank, 50,000 gal. steel.

Pipe, 0.25 mi. 4 to 12-in. c. i.; hyd. 5, hose con. 3-in.; av. daily cons. 15,000 gal.; serv. con. 50; ord. pres. 30 to 40-lb., fire pres. same.

OLIVIA, 960.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Vil. Pres., J. Dolling.....Olivia
Sec., John Flosheimer..... "
Treas., Geo. Winhorse..... "
Supt., L. T. Little..... "
Engr. P'g. Sta., Mark Blodgett..... "

Boiler, 75-hp. Springfield; gas engine, 8-hp. International; steam engine, 60-hp. Ideal.

ORTONVILLE, 1,774.

MUNICIPAL.

Mayor, Fred Pflueger.....Ortonville
City Clerk, E. Scheibe..... "
Supt., A. H. Meyer..... "

Springs & reservoirs, ¼ mi. from center business section.

Boilers, 2 tubular 00-hp. ea. 120 lb. Williams 1903-6; hand stoking; pumps, 1-432,000 gal. hor. comp. d. act. Knowles 1900, 1-216,000 gal. hor. centrifugal d. con. to elec. motor, 20-hp. 220 v. 2 ph. 60 cys. Sprague 1913; air compressor, 9 x 8-in. Blaisdell 1900; pumping to standpipe (1900).

Pipe, 3 mi. 6 & 8-in. c. i.; hyd. 30, hose con. 2½-in. Waterous; meters, 13 Clow; av. daily cons. 20,000 gal. 60%; serv. con. 165; ord. pres. 50 to 100 lb., fire pres. same.

Rates: meter, min. charge $2 quarter 600 cu. ft., 35c. 100 cu. ft. max., 5c. min.

OSAKIS, 1,013.

MUNICIPAL.

Lake Osakis; pumps, steam; hyd. 12; meters, 21.

Rates: meter, 30c. 1000 gal. max., 20c. min.

OWATONNA, 5,658.

MUNICIPAL.

Mayor, Dr. G. G. Morehouse....Owatonna
City Clerk & Supt., C.J. Servatius Owatonna
City Engr., Harvey S. Dartt.... "
Engr. P'g. Sta., F. M. Orlowski.. "

Wells, 1-25 ft. deep 20 ft. in diam., 6-5 to 16-in. 95 to 1142 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 hor. tubular 60-hp. ea. Bross & Kewanee; hand stoking; pumps, 1-1,000,000 gal. Platt, 1-1,500,000 gal. L-D-G.; pumping direct & to standpipe (1892) steel.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 110, hose con. 2½-in. R. D. W., South Park, & Waterous; valves, 98 r. & l. h. thd. various; meters, 75 National, Neptune & Pittsburgh; av. daily cons. 405,000 gal.; serv. con. 110; ord. pres. 55 lb., fire pres. same.

Rates: flat, $5 year, bath $2, closet $3; meters, min. charge $6 year 20,000 gal., 25c. 1000 gal. max., 8c. min.

PARK RAPIDS, 1,801.

MUNICIPAL.

Supt., S. C. Tennis.....Park Rapids
Vil. Clerk, R. A. Dahms..... " "

Fish-Hook River; ¼ mi. from center distribution.

Pumps, 2-1,600,000 gal. F. M. belted to elec. motor, 30 & 90-hp.

Hyd. 28, hose con. 3-in.; valves, r. h. thd.; serv. con. 160; ord. pres. 40 lb., fire pres. 60 to 160 lb.

PARKERS PRAIRIE, 383.

MUNICIPAL.

Vil. Pres., H. H. Leibold...Parkers Prairie
Supt., Ernest Liljegren..... " "

Well, tubular, near center distribution; pumps driven by gasoline engine, 12-hp. 1906; pumping to elev. tank (1904) 30,000 gal.

Hyd. 8, hose con. 3-in.; valves, one Waterous; meters, 3 Pittsburg; serv. con. 23.

Rates: flat, $12 year; meters, min. charge $10 year 10,000 gal.

PAYNESVILLE, 901.

MUNICIPAL LIGHT & WATERWORKS.

Vil. Pres., J. Nehring.....Paynesville
Rec., J. H. Hangen..... "
Supt. & Engr. P'g. Sta.,
R. R. Spindler..... "

Wells, 10 3-in. 70 ft. deep.

Boilers, one hor. tubular 100-hp. 110 lb. Frost 1909, 2 hor. tubular 75-hp. ea. 85 lb. Twin City 1894; pump, 1-60,000 gal. hor. simple d. act. F. M. 1898; steam engines, one 100-hp. Bates 1909, 2 75-hp. ea. Chandler Taylor 1894; pumping to elev. tank (1914) 60,000 gal. steel, Minneapolis Steel & Machinery Co.

Pipe, 0.75 mi. 8-in. c. i.; hyd. 21, hose con. 2½-in. Waterous; valves, 7 r. h. opening; meters, 55; av. daily cons. 20,000 gal., serv. con. 55; ord. pres. 60 lb., fire pres. same.

Rates: meter, 60c. 1000 gal. max., 25c. min.

PINE CITY, 1,258.
MUNICIPAL.
Mayor, Julius Dasey.....Pine City
Clerk, M. A. Buirge..... " "
Treas., J. D. Boyle..... " "
Deep well; pumps driven by elec. motor; hyd. 28.
Rates: meter, 75c. 1000 gal. max., 50c. min.

PINE ISLAND, 834.
MUNICIPAL.
Mayor, J. A. Binggold.....Pine Island
Clerk, N. E. Nellinger..... " "
Treas., L. L. Cornwell..... " "
Wells, 8 12-in.; pumps, 2 triplex driven by steam & gas engines; hyd. 19.

PLAINVIEW, 1,175.
MUNICIPAL.
Mayor, C. J. Moore.....Plainview
Clerk, A. Riesvogel..... "
Treas., E. L. Sylvester..... "
Supt., Michael Klis..... "
Well, 100 ft. deep; pumps driven by gasoline engines; hyd. 32; meters, 72; serv. con. 322.
Rates: flat, $8 year; meter, min. charge $5 year, 3c. 100 gal.

PRESTON, 1,193.
MUNICIPAL.
Mayor, J. W. Hoff.....Preston
Town Clerk, B. R. Danielson..... "
Supt., O. A. Watts..... "
Spring; near business center.
Boilers, 2 fire-tube 65-hp. ea. 105 lb. Springfield 1896; hand stoking; pumps, 1-120,000 gal. Buffalo; pumping to reservoir, 250,000 gal.
Hyd. 31, hose con. 3-in. Waterous; valves, 6 r. & l. h. opening Mueller; meters, none; av. daily cons. 60,000 gal.; serv. con. 325; ord. pres. 92 to 95 lb., fire pres. same.
Rates: flat, $1.25 quarter, bath $2, closet $3.

PRINCETON, 1,555.
MUNICIPAL.
Vil. Pres., Andrew Broyson.....Princeton
Supt. & Engr. P'g. Sta.,
O. E. Randall..... "
Well, 8-in. 188 ft. deep; near center distribution; no purification.
Boilers, 2 return tubular 200-hp. Erie; hand stoking; pumps, 1-390,000 gal. triplex Rumsey d. con. to elec. motor, 20-hp. 220 v. Burke; pumping direct & to elev. tank, 45,000 gal. iron.
Pipe, 4 mi. 6 & 8-in. c. i.; hyd. 18, hose con. 2½-in. Eddy & Waterous; valves, 6 l. h. thd. Eddy; meters, 86 various; av. daily cons. 50,000 gal.; serv. con. 86; ord. pres. 38 lb., fire pres. 100 lb.
Rates: meter, 30c. 1000 gal. max., 20c. min.

RED LAKE FALLS, 1,757.
MUNICIPAL.
Well, near center distribution.
Pump, 1-200,000 gal. Goulds belted to elec. motor, 20-hp. 3 ph. 60 cys. Westinghouse; pumping to elev. tank, 75,000 gal. iron.
Pipe, 2.5 mi. 6 & 8-in. c. i.; hyd. 19, hose con. 3-in. Waterous; valves, 7 r. h. thd.; meters, none; av. daily cons. 80,00 gal.; serv. con. 45; ord. pres. 65 lb., fire pres. same

RED WING, 9,048.
MUNICIPAL.
Mayor, J. J. Ferring.....Red Wing
Clerk, L. C. Meyer..... " "
Treas., G. F. Gross..... " "
Artesian wells; pumps, centrifugal driven by elec. motor; hyd. 152; meters, 947.
Rates: meter, min. charge 20c. mo., 20c. 100 cu. ft. max., 8c. min.

REDWOOD FALLS, 1,666.
MUNICIPAL.
Mayor, G. E. McRay.....Redwood Falls
Chmn. Comrs., Chas. Lusher " "
Comr., Ira Reynolds..... " "
Vil. Clerk, Harry Ward..... " "
Supt., A. C. Burmeister..... " "
Springs.
Boiler, hor. tubular 50-hp. 100 lb. Springfield 1892; hand stoking; pump, 1-1,000,000 gal. hor. simple d. act. L-D-G 1892; elec. motor, 20-hp. 220 v. 3 ph. 60 cys. F. M. 1908; pumping direct & to standpipe (1905) 100,000 gal. steel, American Bridge Co.
Pipe, 18 mi. 4 to 10-in. c. i.; hyd. 75, hose con. 2½-in.; valves, 18 r. h. opening Eddy; meters, 400 Neptune & Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 400; ord. pres. 50 lb., fire pres. 100 lb.
Rates: meter, min. charge 25c. mo., 40c. 1000 gal. max., 10c. min.

RENVILLE, 1,182.
MUNICIPAL.
Mayor, J. W. Ashley.....Renville
Clerk, Harold Baker..... "
Treas., S. M. Serkland..... "
Wells; pumps, steam; hyd. 24; meters, 71.
Rates: meter, 5c. 100 gal. max., 2.5c. min.

ROCHESTER, 7,844.
ROCHESTER WATER CO. Office, 220½ South Broadway.
Pres., B. W. Eaton.....Rochester
Sec., H. M. Verell.....Portland, Me.
Treas. & Gen. Mgr.,
M. G. Holmes.....Rochester
Engr. P'g. Sta.,
Gustaf Rahbine..... "
Wells, 3 24 ft. diam. 32 ft. deep and one artesian 418 ft. deep; ¼ mi. from center business section; reservoir 24,000 gal.; no purification.
Boilers, one tubular 125-hp. 125 lb. Williams 1904, 2 tubular 125-hp. 125 lb. Williams 1912; hand stoking; pumps, 1-1,500,000 gal. hor. comp. d. act. Worth. 1887, 2-1,500,000 gal. ea. hor. comp. d. act. Worth. 1887, 3-1,080,000 gal. ea. hor. simple

d. act. F. M. 1910; pumping direct and to standpipe (1887) 240,000 gal.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 208, hose con. 2½-in. Ludlow & Waterous; valves, 67 r. h. opening Eddy; meters, 1200 National, av. daily cons. 800,000 gal. 90%; serv. con. 1600; ord. pres. 80 to 90 lb., fire pres. 80 to 110 lb.

Rates: flat, $6 a year, bath $2, closet $3; meter, min. charge $5 a year 2200 gal., 30c. 100 cu. ft. max., 10c. min.

ROSEAU, 644.

MUNICIPAL.

Mayor, R. J. Bell.....Roseau
Clerk, E. H. Curan..... "
Treas., T. D. Holdahl..... "

Roseau River; pumps, 1-504,000 gal. triplex steam with gasoline engine in reserve; hyd. 5.

Rates: flat, $1 mo.

RUSHFORD, 1,011.

MUNICIPAL.

Mayor, M. Johnson.....Rushford
Clerk, C. P. Jensen..... "
Treas., J. M. Webster..... "

Artesian well; pumps; steam; hyd. 23; meters, 70.

Rates: meter, 20c. 1000 gal.

ST. CHARLES, 1,159.

MUNICIPAL.

Mayor, S. H. Rollins.....St. Charles
Recorder, L. M. Dixon..... " "
Treas., W. E. Spencer..... " "

Well, 300 ft. deep; pumping to reservoir; hyd. 40; meters, 164; serv. con. 237.

Rates: flat, $5 year, bath & closet $3; meter, min. charge $4 year 12,000 gal., 20c. 1000 gal.

ST. CLOUD, 10,600.

MUNICIPAL.

Mayor, P. J. Seberger.....St. Cloud
Comr., E. J. Metzroth..... " "
" L. J. Rocholl..... " "
City Clerk, Geo. S. Magnuson.... " "
Supt. & Engr. P'g. Sta., Jos. Seibert " "

Mississippi River, ½ mi. from center business section; no purification.

Boilers, one hor. tubular 90-hp. 125 lb. Eagle 1894, one hor. tubular 75-hp. 90 lb. Atlas 1892; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Dean 1888, 1-1,500,000 gal. hor. comp. d. act. Platt 1894, 1-1,000,000 gal. hor. comp. d. act. Smedley 1907, 2-1,500,000 gal. ea. hor. centrifugal Allis-C. 1912 d. con. to elec. motors, 2 75 hp. ea. 2200 v. 3 ph. 60 cys. Allis-C. 1912, elec. energy from Public Service Co.; pumping to standpipe, 367,000 gal.

Pipe, 18.5 mi. 2 to 14-in. c. i.; hyd. 191, hose con. 2½-in. various, valves, 86 r. & l. h. opening; meters, 1000; av. daily cons. 400,000 gal.; serv. con. 1500; ord. pres. 55 to 65 lb., fire pres. 125 lb.

Rates: flat, $17 a year, bath $4, closet $4; meter, min. charge $4 a year, 20c. 100 cu. ft. max., 8c. min.

ST. PAUL, 214,744.

MUNICIPAL.

Pres. Comrs., Carl P. Dahlby.....St. Paul
V. Pres., Louis F. Dow..... " "
Comr., Isaac Lederer..... " "
" John W. Lux..... " "
" Hans Madson..... " "
Gen'l. Supt., Garrett O. House..... " "
Sec., John C. Flanagan..... " "
City Engr. Oscar Claussen..... " "
Engr., Roscoe L. Smith..... " "
Supt. of Mech. Dept., Martin Feist " "
Pur. Agt., John Caulfield..... " "

Rice Lake system, 10 mi. north city. Centerville Lake system & wells, 28 65 to 390 ft. deep, 10 to 20 mi. north; Vadnais Lake system & wells, 11 8 & 10-in. 114 ft. deep, south of above; Phalen Lake system; chemical, copper sulphate.

Baldwin Lake Sta.: boiler, one return tubular 45-hp. 88 lb. Brownell 1889; pump, 1-10,000,000 gal. hor. comp. duplex Deane 1889; Centerville Lake Sta.: boilers, 2 return tubular 60-hp. ea. 88 lb. Glenn 1884 & Kenny 1891; pump, 1-15,000,000 gal. vert. comp. duplex c. & f. wh. Allis 1896; Vadnais Lake Sta.: boilers, 2 return tubular 60-hp. ea. 88 lb. Glenn 1884 & Kenny 1894; pump, 1-5,000,000 gal. hor. comp. duplex Allis 1895; McCarron Lake Sta.: boilers, 2 return tubular 120-hp. ea. 122 lb. Kenny 1896–7, 2 return tubular 60-hp. ea. 88 lb. Kenny 1891; pumps, 1-3,500,000 gal. vert. comp. duplex c. & f. wh. Allis 1884, 1-6,000,000 gal. vert. tri. exp. c. & f. wh. Allis 1890, 1-10,000,000 gal. vert. tri. exp. c. & f. wh. Allis 1898; West Side Sta.: boiler, one water-tube 60-hp. 90 lb. National 1892; pumps, 1-1,000,000 gal. hor. comp. duplex Blake 1892, 1-190,000 gal. hor. simplex Waterous 1903 driven by gasoline engine.

Pipe, 378.55 mi. 4 to over 30-in. c. i.; hyd. 3500, hose con. 2½ to 4-in. R. D. W.; valves, 3150 r. h. opening South Park & Kennedy; meters, 23,500 mostly National & Pittsburgh; av. daily cons. 13,000,000 gal.; serv. con. 36,200; ord. pres. 15 to 80 lb., fire pres. by means of fire engines.

Rates: flat, $4 year, bath $2, closet $3, meters, 6c. 100 cu. ft.

ST. PETER, 4,176.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
F. N. Wilson.....St. Peter

Artesian well.

Boilers, 2 return tubular 150-hp. Brownell; hand stoking; pumps, 2 Smedley; pumping to standpipe (1888) steel.

Pipe, 3.9 mi. 4 to 12-in. c. i.; hyd. 43, hose con. 2½-in. Chapman; valves, 18 r. h. thd. Chapman; meters, 240 various; av. daily cons. 90,000 gal.; serv. con. 243; ord. pres. 90 to 100 lb., fire pres. same.

Rates: meter, 3c. 100 gal. max., 1.5c. min.

SANDSTONE, 1,818.
THE KETTLE RIVER CO.
Pres., W. G. Jordan.....Sandstone
V. Pres., T. S. Harris..... "
Mgr. & Engr. P'g. Sta.,
H. L. Bailey..... "
Artesian well, 2 8 & 10-in. 178 to 732 ft. deep; ¾ mi. from center distribution; no purification.
Pumps, 2-720,000 & 1,008,000 gal. Worth. d. con. to elec. motors, 100 kw., 440 v. 3 ph. 60 cys. Fr. Wayne; elec. energy from water power; pumping to elev. tank (1912) wood.
Pipe, 3.5 mi. 4 to 12-in. c. i.; hyd. 29, hose con. 2½-in. R. D. W. & Waterous; valves, 37 r. & l. h. thd. Crane; meters, 5 Pittsburgh; av. daily cons. 200,000 gal;. serv. con. 240; ord. pres. 45 to 50 lb., fire pres. 45 to 90 lb.
Rates: flat, $12 year; meter, 35c. 1000 gal. max., 10c. min.

SAUK CENTER, 2,154.
MUNICIPAL.
Mayor, J. M. McGibbon.....Sauk Center
Clerk, J. S. Cooper..... " "
Treas., J. A. Du Bois..... " "
South Lake; pumps, steam & driven by elec. motor; pumping direct; hyd. 45; meters, one; serv. con. 251.
Rates: flat, $5 year, bath $2, closet $3.

SAUK RAPIDS, 1,745.
MUNICIPAL.
Jayor, James Misho..... Sauk Rapids
Clerk, James Bunn..... " "
Treas., Frank E. Artig..... " "
Wells; pumps driven by elec. motors; hyd. 20; meters, 46; serv. con. 100.
Rates: meter, 30c. 1000 gal.

SHAKOPEE, 2302.
MUNICIPAL WATER & LIGHT PLANT.
Supt., T. E. Harris.....Shakopee
Pumps, 1-520,000 centrifugal Platt d. con. to elec. motor, 35-hp. 2300 v., 1-1,000,000 gal. steam F. M.; elec. energy from Minneapolis General Electric Co.; pumping to standpipe (1912) 176,000 gal. steel, Minneapolis Steel & Machinery Co.
Pipe, 3 mi. 6 to 10-in.; hyd. 36, hose con. 2½-in. Waterous; valves, 19 l. h. opening; meters, 60 Pittsburg; serv. con. 60; ord. pres. 80 lb., fire pres. 100 lb.
Rates: meter, min. charge $1.25 quarter, 15c. 1000 gal.

SHERBURN, 814.
MUNICIPAL.
Vil. Pres., P. A. Pealman.....Sherburn
" Clerk, A. W. Sandford..... "
Supt. & Engr. P'g. Sta., H. H. Lee "
Well, 8-in. 240-ft. deep; reservoir, 50,000 gal.
Pump, 1-144,000 gal. hor. d. act. Deming 1904 driven by gasoline engines, 11-hp. Otto 1894; pumping to elev. tank, 100,000 gal. steel.
Pipe, 3 mi. 6 & 8 in. c. i.; hyd. 31, hose con. 2½-in. mostly Eureka; valves, 3 r. h. opening; meters, 65 National, Pittsburg & Neptune; av. daily cons. 700,000 gal. 50%; serv. con. 69; ord. pres. 40 to 48 lb., fire pres. same.
Rates: flat, $6 year; meter, 35c. 1000 gal.

SLEEPY EYE, 2,247.
MUNICIPAL.
Mayor, Albert Hauser.....Sleepy Eye
City Recorder, A. C. Peterson.. " "
Treas., H. C. Domeyer..... " "
Wells, 2; pumps, steam & one driven by elec. motor; hyd. 27; meters, 87.
Rates: meter, min. charge 40c. mo., 40c. 1000 gal.

SOUTH ST. PAUL, 4,510.
MUNICIPAL. Pumping by Swift & Co.
Supt. & City Engr.,
John E. Fearing.....South St. Paul
Artesian well, 12-in.; near center business section.
Boiler, Water tube 350-hp. B. & W.; hand stoking; pumps, 1-864,000 gal. Platt; pumping to standpipe (1903) 150,000 gal. steel.
Pipe, 10 mi. 4 to 12-in. c. i., hyd. 120, hose con. 2½-in. South Park; valves, 38 r. h. thd. Eddy; meters, 600 Pittsburgh; av. daily cons. 225,000 gal.; serv. con. 600; ord. pres. 15 to 95 lb., fire pres. same.
Rates: meter, 30c. 1000 gal. max., 20c. min.

SPRING GROVE, 700.
MUNICIPAL.
Supt., M. E. Bakken.....Spring Grove
Well, 430 ft. deep; no purification.
Boilers, 1-156,000 gal. Keystone d. con. to oil engines, 35-hp. F. M.; pumping to elev. tank, 110,000 gal. wood.

SPRINGFIELD, 1,482.
MUNICIPAL.
City Pres., James Dickson.....Springfield
Recorder, H. Langmack..... "
Artesian wells, 3 5½-in. 30 ft. deep; near center distribution; no purification.
Boilers, 2 tub. 175-hp. Bois; hand stoking; pumps, 2-1,440,000 gal. Gordon; pumping to standpipe (1908) steel.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 3-in. Waterous; meters, 150 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 65 to 68 lb., fire pres. same.

SPRING VALLEY, 1,817.
MUNICIPAL.
Mayor, S. H. Hale.....Spring Valley
Clerk, E. P. H. Adams..... " "
Treas., W. L. Kellogg..... " "
Natural springs; pumps driven by gasoline engines; hyd. 33; meters, 170; serv. con. 175.
Rates: meter, min. charge $1 quarter 2000 gal., 30c. 1000 gal. max., 15c. min.

STAPLES, 2,558.

MUNICIPAL.

Chmn. Comrs., W. J. Lewis.....Staples
Sec., F. W. Findsen..... "
Supt., John Effinger..... "
Engr. P'g. Sta., W. E. Thompson... "

Well, 12-in. 68 ft. deep; at center business section; water softener, Northern Water Softener Co.; chemicals, lime & soda ash.

Pump, 1-500,000 gal. comp. Blake 1905; pumping to elev. tank (1908) 80,000 gal. steel.

Pipe, 2 mi. 4 to 10-in. c. i.; hyd. 30, hose con. 2½-in. Waterous; valves, 10 r. h. opening Eddy; meters, 120 Neptune; serv. con. 121; ord. pres. 35 to 40 lb., fire pres. 40 to 100 lb.

Rates: all meter, min. charge $1 quarter, $3 1000 cu. ft. max.

STARBUCK, 497.

MUNICIPAL.

Supt., A. H. Dreyer.....Starbuck

Wells, 2 3-in. 80 to 120 ft. deep; near center distribution.

Pumps, 1-456,000 gal. Goulds belted to gasoline engines, 25-hp. F. M.; pumping to elev. tank (1901) 20,000 gal. wood.

Hyd. 4, hose con. 2-in.; meters, none; av. daily cons. 1500 gal.; serv. con. 22; ord. pres. 10 to 15 lb., fire pres. 110 lb.

Rates: flat, 50c. mo.

STILLWATER, 10,198.

MUNICIPAL. Office, 204 North Third St.

Pres. Comrs., R. S. Davis.....Stillwater
Comr., O. H. Olsen..... "
" J. J. Eichten..... "
Sec., J. H. Ward..... "
Supt., L. W. Clarke..... "
Engr. P'g. Sta., H. S. Grove..... "

Spring, McKusick Lake and artesian well, 10-in. 600 ft. deep; one mi. from center business section; no purification.

Boilers, 2 hor. tubular 50-hp. ea. 80 lb. St. Paul 1888; hand stoking; pumps, 1-1,000,000 hor. comp. duplex Smedley 1888, 1-500,000 gal. hor. Blake 1881 d. con. to steam engines; pumping to standpipes, 3 (1888, 1906, 1912) 485,000 gal.

Pipe, 15.2 mi. 4 to 6-in. c. i.; hyd. 166, hose con. 2½-in. mostly Ludlow; valves, 100 r. h. opening Ludlow; av. daily cons. 1,000,000 gal.; serv. con. 1150; ord. pres. 25 to 100 lb., fire pres. same.

Rates: flat, $4.90 year, bath $2.10, closet $2.80.

THIEF RIVER FALLS, 3,714.

MUNICIPAL.

Mayor, Lars Back .....Thief River Falls
City Clerk, E. J. Overland " " "
Supt., Leonard Peterson... " " "

Red Lake River and well, 10-in. 140 ft. deep; near center business section.

Pumps, 1-180,000 gal. vert. s. Goulds 1908, 1-1,000,000 gal. vert. triplex Platt 1908 both belted to elec. motors, 25 and 65-hp. 220 v. G. E. 1908 and Triumph 1908; oil engines, 2 225-hp. ea. Busch-Sulzer Bros. Diesel Engine Co. 1912; water turbines, 2 220-hp. ea. Leffel; pumping to standpipe (1908) 75,000 gal.

Pipe, 4 mi. 4 to 10-in. c. i.; hyd. 50, hose con. 2½-in. Waterous & Iowa; valves, 20 r. h. opening Crane; meters, 250 Neptune; av. daily cons. 150,000 gal.; serv. con. 250; ord. pres. 50 to 55 lb., fire pres. 80 to 100 lb.

Rates: meter, 5c. per 100 gal. max. 3c. min.

TRACY, 1,876.

MUNICIPAL.

Supt., J. R. McElvain.....Tracy

Well, 10-in. 652 ft. deep; ½ mi. from center distribution.

Boilers, 2-100-hp.; hand stoking; pumps, 2-driven by elec. motors, 10-hp. 220 v. 3 ph. 60 cys. F. M.; pumping to reservoir, 80,000 gal.

Pipe, 10 mi. 4 to 12-in.; meter, 225; serv. con. 400.

Rates: flat, $2.25 quarter; meter, 30c. 100 cu. ft. max., 20c. min.

TWO HARBORS, 4,990.

MUNICIPAL.

Mayor, William Towl.....Two Harbors
Clerk, August Ompbett..... " "
Treas., Thos. Martin..... " "
Supt., Scott Wait..... " "

Lake Superior; pumps, steam; hyd. 42; meters, one; serv. con. 1126.

Rates: flat, $8 year, bath $2, closet $2.

VIRGINIA, 10,473.

MUNICIPAL ELECTRIC POWER & WATER PLANT.

Mayor, Michael Boylan.....Virginia
Clerk, A. E. Bickford..... "
Treas., Fred L. Vergille..... "
Supt., J. A. Kennedy..... "

Wells, tubular; boiler, 300-hp. Williams; pumps, steam; steam turbines, 275-hp. Allis-C; steam engine, 600-hp. Corliss; hyd. 109; meters, 1800; serv. con. 1875.

Rates: flat, $6 year, bath $2, closet $4; meter, 20c. 100 cu. ft. max., 8c. min.

WADENA, 1,820.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS PLANT.

Pres. Bd., F. R. Stedman.....Wadena
Supt., George S. Hughes..... "
Engr. P'g. Sta., Herman S. Erthe.. "

Wells; boiler, 375-hp. Williams; steam engine, 450-hp. Ideal; hyd. 25; meters, 150.

Rates: meter, min. charge 40c. 10c. 100 cu. ft.

WALKER, 917.

MUNICIPAL.

Vil. Pres., Louis Keneger.....Walker
" Clerk, H. W. Bright..... "
Supt., John E. Gray..... "

Lake Leech; ½ mi. from center business section.

Boilers, one tubular 100-hp. 125 lb. Freeman 1906; pump, 1-350,000 gal. duplex Deane 1906; pumping to elev. tank (1902) 65,000 gal. wood F. M.

Pipe, 3.5 mi. 4 to 8-in. c. i.; hyd. 16, hose con. 2½-in. Waterous; valves, 9 r. & l. h. opening; av. daily cons. 30,000 gal.; serv. con. 97; ord. pres. 60 lb., fire pres. 60 to 125 lb.

Rates: flat, $1.75 quarter, bath $1.25, closet 75c.; meter, 40c. 1000 gal. max. 25c. min.

WARREN, 1,613.

MUNICIPAL.

Pres. Comrs., C. E. Lundquist.....Warren
Comr., A. B. Nelson..... "
" H. M. Swanson..... "
Sec., G. O. Cross..... "
Supt., W. R. Haney..... "
Engr. P'g. Sta., J. Barlow..... "

Artesian well, 2 10-in. 200 ft. deep; ½ mi. from center business section.

Boilers, 2 internally fired 125-hp. 125 lb. Springfield 1903 & 1908; hand stoking; pump, 1-144,000 gal. Troy 1908 belted to engine; pumping to elev. tank (1912) 50,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 2.5 mi. 4 to 8-in. c. i.; hyd. 27, hose con. 2-in. Waterous; valves, 8 r. & l. h. opening; meters, 235 National; serv. con. 320; ord. pres. 45 lb., fire pres. same.

Rates: flat, $5 a year; meter, $1.25 quarter, 40c. 1000 gal. max., 25c. min.

WASETA, 3,054.

MUNICIPAL LIGHT & WATER PLANT.

Pres., Chas. Norton.....Waseta
Sec., Thos. Lang..... "
Mgr. & Cont. Agt., E. J. Guy..... "

Boilers, 200-hp. Ideal; steam engine, 325-hp. Ide.

WATERTOWN, 435.

MUNICIPAL.

Recorder, C. C. Teas.....Watertown

Crow River.

Pump driven by gasoline engine, 35-hp.; pumping direct.

Hyd. 6, hose con. 2-in.; ord. pres. 90 lb.

WELCOME, 543.

MUNICIPAL.

Vil. Pres., E. W. Halkney.....Welcome
" Clerk, Fred Jarchow..... "

Well, 8-in. 250 ft. deep; pump, 96,000 gal. vert. simple d. act. Goulds driven by gasoline engine 15-hp. F. M. 1904; pumping to elev. tank.

Hyd. 7, hose con. 2½-in.; valves, 4; av. daily cons. 3,600 gal.

WELLS, 1,759.

MUNICIPAL WATER, LIGHT, POWER & BUILDING COMMISSION.

Pres. Comrs., C. F. Sweet.....Wells
Comr., A. E. Anderson..... "
" R. A. Cander..... "
Supt., J. A. Culshaw..... "

Artesian wells & reservoirs; near center business section.

Boilers, 2 hor. tubular 75-hp. ea. 125 lb. 1900; pumps, one hor. comp. d. act. & on deep well driven by elec. motor, 20-hp. 220 v.; pumping to elev. tank, 25,000 gal.

Hyd. 27 Waterous; meters, 200 Pittsburgh; ord. pres. 45 lb., fire pres. 45 to 125 lb.

Rates: meter, min. charge $5 year, 33c. 1000 gal. max., 22c. min.

WEST MINNEAPOLIS, 3,022.

MUNICIPAL.

Pres. Trustees,
G. W. Moore.....West Minneapolis
Recorder, E. A. Cole..... " "
Trustee, Augustus Japs.. " "
" Andrew Juslin.. " "
" Frank Shinota.. " "
Supt., H. T. Moore..... " "

Well, 600 ft. deep; near center distribution.

Boilers, 3 tub. 400-hp. Minneapolis; hand stoking; pumps, 2-1,872,000 gal. Blake & Gordon; pumping to reservoir, 2,750,000 gal. & to elev. tank (1901) 150,000 gal. wood.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½-in. Waterous; valves, 16; meters, 212 Neptune & National; ord. pres. 50 lb.

Rates: meter, 15c. 1000 gal.

WHEATON, 1,300.

MUNICIPAL.

City, G. J. Kristensen.....Wheaton

Wells, tubular; pumps driven by gasoline engines; hyd. 30; meters, 100; serv. con. 100.

Rates: meter, $6 1000 cu. ft. max., $3 min.

WHITE BEAR, 1,505.

MUNICIPAL.

Supt., A. L. Burrows.....White Bear
Cons. Engr., W. T. Whitten.... " "
Vil. Clerk, J. E. Extrand..... " "

Wells, 2-350 & 750 ft. deep; at center distribution; no purification.

Pumps, 2-216,000 & 360,000 gal. driven by elec. motors, 20-hp. F. M. & 25-hp. G. E.; elec. energy from Consumers Power Co.; pumping to elev. tank, 150,000 gal. steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 4-in. Waterous; meters, 200 Pittsburgh; av. daily cons. 102,000 gal.; serv. con. 300; ord. pres. 50 to 60 lb., fire pres. same.

Rates: all meter, 20c. 100 cu. ft. max., 12c. min.

WILLMAR, 4,135.

MUNICIPAL WATER & LIGHT COMMISSION.

Pres. Comrs., C. S. Olson.....Willmar
V. Pres., R. M. Hicks..... "
Sec., L. Fridlund..... "
Supt., N. W. Larson..... "
Engr. P'g. Sta., E. Westlund..... "

Wells, 2 8-in. 375 ft. deep; at center distribution; no purification.

Boilers, one hor. tubular 150-hp. 150 lb. Williams 1912, one hor. tubular 135-hp. 125 lb. Diamond 1902; hand stoking; pumps, 1-450,000 gal. hor. simple duplex d. act. Platt 1891, 1-450,000 gal. vert. triplex Goulds 1910 belted to elec. motor, 15-hp. 2200 v. 3 ph. 60 cys. Wagner 1914; steam engines, 125-hp. Erie 1914, 175-hp. Erie 1914; pumping to elev. tank (1910) 42,000 gal. steel.

Hyd. 52, hose con. 2½-in.; meters, 400; av. daily cons. 60,000 gal.; ord. pres. 40 lb., fire pres. 35 to 100 lb.

Rates: meter, min. charge $3 year, 35c. 100 cu. ft. max., 6c. min.

WINDOM, 1,749.

MUNICIPAL WATER & ELECTRIC LIGHT PLANT.

Pres., J. Anderson.....Windom
Recorder, W. M. Hale..... "
Treas., T. A. Perkins..... "
Supt., A. H. Bickerson..... "

Boiler, 100-hp. Brownell; steam engine, 80-hp. Ide.

WINNEBAGO, 1,554.

MUNICIPAL.

City Pres., Alex. Eckel.....Winnebago
Recorder, W. R. Baremore..... "
Treas., I. A. Babcock..... "

Deep well; pumping with air compressor; hyd. 26; meters, 230; serv. con. 255.

Rates: flat, $5 year; meter, min. charge $4 year, 30c. 1000 gal.

WINONA, 18,583.

MUNICIPAL.

Mayor, E. S. Muir.....Winona
Clerk, Geo. W. Hofmann..... "
Treas., Edwin A. Brown..... "
Supt., S. S. Strause..... "

Wells, open & artesian; pumps, 1-6,000,000 gal. steam, 1-3,000,000 gal. steam, 1-2,500,000 gal. steam; hyd. 380; meters, 1780; serv. con. 2780.

Rates: flat, $3 year, bath $3, closet $3, meter, min. charge 75c. mo., 20c. 1000 gal. max., 6c. min.

WINTHROP, 1,043.

MUNICIPAL.

Supt., Geo. Huelskamp.....Winthrop

Artesian well, 8-in. 240-ft. deep; ¾ mi. from center distribution; no purification.

Boilers, 2 tubular 250-hp.; hand stoking; pumps, one deep well, 1-1,440,000 gal. F. M., 1-432,000 gal. F. M.; air compressors driven by elec. motors, 5-hp. 220 v. d. c.; pumping to reservoir, 100,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 24, hose con. 3-in.; av. daily cons. 32,000 gal.; serv. con. 65; ord. pres. 45 to 70 lb., fire pres. 70 to 150 lb.

Rates: flat, $6 year.

WOOD LAKE, 292.

MUNICIPAL.

Mayor, J. E. Waruke.....Wood Lake
Recorder, Harry F. Payne..... " "
Supt., G. B. Priester..... " "

Well, 5-in. 400 ft. deep & one 4-in. 177 ft. deep; no purification.

Pumps belted to elec. motors, 220 v. 3 ph. 60 cys. G. E.; elec. energy from Granite Falls; pumping to elev. tank, wood.

Rates: meter, 20c. 100 cu. ft.

WORTHINGTON, 2,385.

MUNICIPAL.

Chmn. Comrs., David Anderson Worthington
Comr., R. S. Thurber..... "
" A. J. Ward..... "
Sec., W. H. Burham..... "
Engr. P'g. Sta., E. Rudfuist... "
" " " Chas. Barthing "

Lake Okobena & artesian wells, 6, 8 & 10-in. 79 ft. deep; no purification.

Boilers, 3 fire-tube 150-hp. 125 lb. Freeman 1903 & Brown 1901; hand stoking; pumps, 2-1,500,000 gal. hor. simple d. act. Platt; steam engines, 2 100 & 300-hp. Ide 1912 & 1914, one 200-hp. Buckeye 1909; pumping direct.

Pipe, 10 mi. 2 to 10-in. c. i.; hyd. 32, hose con. 3-in.; valves, 24 r. & l. h. opening; meters, 50; av. daily cons. 25,000 gal.; serv. con. 400; ord. pres. 60 lb., fire pres. 60 to 100 lb.

Rates: flat, $2 quarter, bath $1, closet $1.25; meter, min. charge $1.33 mo. 3000 gal., 10c. 100 cu. ft. max., 4.5c. min.

ZUMBROTA, 1,138.

MUNICIPAL.

Vil. Pres., J. D. Grover.....Zumbrota
" Clerk, J. T. Weiss..... "
Engr. P'g. Sta., E. K. Lohmann. "

Well, 10-in. 240 ft. deep; near center business section.

Pumps, 1-150,000 gal. hor. tri. exp. d. act. F. M. 1897; elec. motor, 10-hp. 110 v.; pumping to reservoir, 160,000 gal.

Pipe, 3 mi. 4 to 10-in.; hyd. 33, hose con. 3-in.; valves, 15; meters, none.

Rates: flat, $5 year.

MISSISSIPPI

ABERDEEN, 3,000.

MUNICIPAL ELECTRIC LIGHT & WATER COMMISSION.

Pres., J. L. Shell.....Aberdeen
Comr., W. S. Carlton..... "
" H. H. Scoupe..... "
City Clerk, R. A. Maynard..... "
Supt., E. A. Stimson..... "
Engr., P'g Sta., J. W. Bolding..... "

Wells, 6 4 to 8-in. 160 ft. deep; near center business section; no purification.

Boilers, 2 hor. tubular, 150-hp. ea. 120 lb. W. & W. 1905; pumps, 2-1,250,000 gal. hor. comp. d. act. McGowan 1905, air compressors, 2, Clayton 1908 & 1910, steam engines, 125-hp. Ball 1905, 250-hp. Allis-C. 1905; pumping to reservoir, 200,000 gal. & elev. tank (1905) 100,00 gals., Chicago Bridge & Iron Works.

Pipe, 8.5 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Rensselaer; valves, 48 l. h. opening Crane; meters, 525 Hersey & Pittsburgh; av. daily cons. 150,000 gal. 75%; serv. con. 505; ord. pres. 40 to 67 lb., fire pres. 125 to 150 lb.

Rates; all meter, min. charge $1 mo. 2000 gal., 30c. 1000 gal. max., 6c. min.

ACKERMAN, 1,398.

MUNICIPAL.

Mayor, B C. McWhorten.....Ackerman
City Clerk, L. J. Weaver..... "
Supt., A. J. collings..... "
Des. Engr., X. B. Kramer.....Magnolia

Springs; 2 mi. from center business section; reservoir, 10,000 gal.; no purification.

Boilers, 2 fire-tube 50-hp. ea. 100 lb. W. & W. 1910; pumps, 2 hor. comp. d. act. Worth. 1910; steam engines, one automatic Harrisburg 1910; elec. motors, 50 kw. 2300 v. 3 ph. 60 cys. Ft. Wayne 1910; pumping to elev. tank (1910) 50,000 gal. steel.

Pipe, 7 mi. 2 to 8-in. c. i.; hyd. 43, hose con. 2½-in. Columbian; valves, 18 l. h. opening Columbian; meters, 49 Pittsburgh; av. daily cons. 20,000 gal.; serv. con. 59; ord. pres. 25 to 55 lb., fire pres. 100 lb.

Rates; meter, 50c. 1000 gal. max., 25c. min.

AMORY, 2,122.

MUNICIPAL.

Supt., R. Miller.....Amory

Wells, three 6 & 8-in. 419 ft. deep; at center distribution; no purification.

Boilers, 2 hor. tubular & marine 180-hp. W. & W.; hand stoking; pumps, 2-720,000 gal. Platt; pumping to elev. tank, 10,000 gal.

Pipe, 6.25 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. Columbian; valves, 102 r. h. thd. Columbian; meters, 380 Neptune; av. daily cons. 4000 gal.; serv. con. 380, ord. pres. 60 lb., fire pres. same.

BAY ST. LOUIS, 3,388.

BAY ST. LOUIS WATERWORKS. (Privately owned.)

Proprietor, Chas. Danger....Bay St. Loui;

Artesian wells, 3 4-in. 1000 ft. deep, near center business section; no purification

Gravity distribution from elev. tank, 12,000 gal. Caldwell.

Pipe, 13 mi. 2 to 12-in. w. i.; hyd. 39, hose con. 2½-in. Kupferle; valves, 4; serv. con. 275; ord. pres. 22 lb.

Rates; flat, $10 year, bath $2.55, closet $3.75.

BELZONI, 1,055.

MUNICIPAL.

Supt., J. K. Sisloff.....Belzoni
Engr. P'g. Sta., D. D. Abernathy... "

Wells, two 4 & 6-in. 770 ft. deep; ¼ mi. from center business section; reservoirs, 2-175,000 gal.

Boilers, one marine 100-hp. 145 lb. W. & W. 1904, 2 return tubular 100-hp. ea. 150 lb. H. S. G. 1915; pumps, 1-1,080 000 gal. hor comp. duplex d. act.Platt; pumping to elev. tank (1904) 7500 gal. steel, Chicago Bridge & Iron Works.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 20, hose con. 2½-in. Rensselaer & Pratt & Cady; valves, 15 r. h. opening Nelson; meters, 25 Pittsburgh; av. daily cons. 125,000 gal. 80%; serv. con. 250; ord. pres. 65 to 125 lb., fire pres. 65 to 150 lb.

Rates; flat, $1.25 mo.; meter, 25c. 100 gal.

BILOXI, 8,049.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
E. L. Castanera.....Biloxi

Artesian wells, three 4 to 8-in. 1000 ft. deep; near center distribution; boilers, two 100-hp. ea.; hand stoking ;pumps, 3-3,600,000 gal. Platt & Worth.; elec. motors, 75 kw. 2200 v. 3 ph. 60 cys. Westg.; pumping direct & to elev. tank, 240,000 gal. iron; reservoir, 100,000 gal.

Pipe, 26 mi. 4 to 12-in. c. i.; hyd. 275, hose con. 2½-in. R. D. W., F. M. & Columbia; valves, 400 F. M.; meters, 22 Neptune & Union; av. daily cons. 1,000,000 gal.; serv. con. 1400; ord. pres. 30 to 35 lb., fire pres. 100 to 125 lb.

Rates; flat, $6 year; meter, 25c. 1000 gal.

BOONEVILLE, 1,227.

BOONEVILLE LIGHT & WATER CO. Office, 32 State St.

Owner & Mgr., A. W. Kearly....Booneville

Gas engine, 100-hp.

BROOKHAVEN, 5,293.

MUNICIPAL.

City Engr., E. McCormick....Brookhaevn

BYHALIA, 511.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Pres., J. McCleary.....Byhalia
Supt., E. B. Funderruke..... "

Boiler, 75-hp. Corinth; steam engine, 55-hp. Ide.

CANTON, 3,929.
MUNICIPAL.
Supt. & Pur. Agt.,
John T. Sharpe, Jr.....Canton
Artesian well, 8-in. 400 ft. deep; ¾ mi. from center distribution; reservoir, 365,000 gal.
Boilers, three 565-hp. Sterling & Robb. Mumford; pumps 3-5,400,000 gal. Worth. & Lawrence; pumping direct & to standpipe (1906) steel.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 96, hose con. 2½-in. Rensselaer; valves, 55 r & l. h. thd. Rensselaer & Crane; meters, 5 Pittsburgh; av. daily cons. 360,000 gal.; serv. con. 500; ord. pres. 50 to 65 lb., fire pres. 60 to 100 lb.
Rates; flat, $3 year, bath $3, closet $5; meter, 25c. 1000 gal., 10c. min.

CARROLLTON, 608.
MUNICIPAL LIGHT & WATER PLANT.
Mgr. & Engr. P'g. Sta., W. E. Stilson
Carrollton
Artesian wells, 2 60 & 250 ft. deep; reservoir, 35,000 gal.; no purification.
Boiler, one return tubular 125-hp. H. S. G.; pumps, one; pumping to standpipe (1904) iron.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 2½-in. Rensselaer; valves, 6 r. h. thd. Crane, av. daily cons. 35,000 gal.; serv. con. 125; ord. pres. 50 to 70 lb., fire pres. 90 to 110 lb.
Rates; flat, $2 mo.

CHARLESTON, 1,834.
MUNICIPAL.
City Engr., H. E. Smith.....Charleston

CLARKSDALE, 4,079.
MUNICIPAL.
Comr., W. B. Perkins.....Clarksdale
City Engr., W. S. Bobo..... "
Supt., W. W. Pointer..... "
Artesian wells, 5 4 to 8-in. 1300 to 1500 ft. deep; near center distribution; reservoir, 325,000 gal.
Boilers, 4 one water tube, one marine & 2 fire-tube 450-hp. Murray & W. & W.; hand stoking; pumps, 2-2,880,000 gal. Buffalo & Gardner; pumping direct & to reservoir, 60,000 gal. steel.
Pipe, 17 mi. 4 to 12-in. c. i.; hyd. 175, hose con. 2½-in. Rensselaer, Pratt & Cady & Columbia; valves, 140 r. h. thd. various; meters, 700 mostly Pittsburgh; serv. con. 700; ord. pres. 40 to 60 lb., fire pres. 80 to 120 lb.

CLEVELAND, 1,001.
MUNICIPAL.
Mayor, J. R. S. Franklin.....Cleveland
Sec., L. M. Guynes..... "
Artesian wells; near center distribution; pumps, driven by gasoline engines, 2 1912; pumping to standpipe (1912) 250,000 gal.
Pipe, 5 mi. 4 to 8-in.; hyd. 40, hose con. 4-in.; meters, none.
Rates; flat, $1 mo., bath $1.50, closet $2.

CLINTON, 767.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Mayor, R. M. Hardy.....Clinton
Town Clerk, L. Latimer..... "
Treas., E. F. Anderson..... "
Mgr., J. W. Provine..... "
Supt., P. H. Rutherford..... "
Boiler, 225-hp. Brownell; steam engines, 200-hp. Atlas.

COLUMBUS, 8,988.
MUNICIPAL.
Supt., M. C. VanDever.....Columbus

CORINTH, 5,020.
MUNICIPAL.
Mayor, B. R. Warren.....Corinth
Supt., J. M. Bell..... "
Artesian wells, 4 8 & 10-in. 300 to 650 ft. deep; ¼ mi. from center distribution; reservoir, 200,000 gal.
Boilers, 2 return tubular 100-hp. Adams; hand stoking; pumps, 3-3,000,000 gal. McGowan; pumping to elev. tank, 50,000 gal. steel.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 125, hose con. 2½-in. Rensselaer, American & Kupferle; valves, 50 r. h. thd. Ludlow, Crane & Rensselaer; meters, none; av. daily cons. 400,000 gl.; serv. con. 600; ord. pres. 40 to 43 lb., fire 100 to 120 lb.

CRYSTAL SPRINGS, 1,343.
MUNICIPAL. Leased by H. Converse.
Supt., Ward Converse.....Crystal Springs
Sec. & Treas.,
Mrs. I. M. Converse..... " "
Wells, 100 ft. deep; near center distribution.
Boilers, 2 hor. tubular 250-hp. ea. Casey-Hedges; hand stoking; pumps, deep well Cook, 2-100,000 gal. Worth.; elec. motor, 10-hp. 115 v. d. c. G. E.; pumping to standpipe (1909) 150,000 gal. iron.
Av. daily cons. 100,000 gal.; serv. con. 3452; ord. pres. 60 to 65 lb., fire pres. 150 to 175 lb.
Rates; flat, min. $1.25.

ELLISVILLE, 2,446.
MUNICIPAL. Leased by Ben. P. Gowen
Supt., Ben P. Gowen.....Ellisville
Artesian well, 6-in. 540 ft. deep; one mi. from center distribution; reservoir, 65,000 gal.; no purification.
Boilers, 2 return tubular 80-hp. Erie; hand stoking; pumps, 2-250,000 gal. Herron, 1-432,000 gal. centrifugal Worth. d. con. to elec. motor, 30 kw. 2300 v. 3 ph. 60 cys. G. E.; elec. energy from Laurel Lt. & Ry. Co.; pumping to elev. tank, 60,000 gal. steel.
Pipe, 4 mi. 4 & 8-in.; hyd. 30, hose con. 2½-in. Pratt & Cady; valves, r. h. thd.; meters, 100 Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 200; ord. pres. 40 to 45 lb., fire pres. 150 lb.
Rates; meter, 60c. 1000 gal. max., 25c. min.

FAYETTE, 775.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, J. E. Perry..... "
Sec., E. H. Rebir..... "
Treas., M. A. Killingsworth..... "
Mgr., W. W. Bisland..... "
Engr., P'g. Sta., J. E. Lewis..... "

Boiler, 80-hp. W. & W.; steam engines, 35-hp. Chuse.

GLOSTER, 1,436.

MUNICIPAL.

Supt. & Engr., P'g. Sta.,
F. W. Seefield.....Gloster

Wells, 2-110 ft. deep.

Boilers, one water-tube 100-hp. W. & W., one water-tube 125-hp. B. & W.; hand stoking; pumps, 2-504,000 gal. Downey; pumping direct & to elev. tank, 36,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 29, hose con. 2½-in.; meters, 5 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 195; ord. pres. 30 to 65 lb., fire pres. same.

GREENVILLE, 9,610.

MUNICIPAL.

Artesian wells, 4 ft. deep; near center business section; no purification.

Boilers, one 300-hp. Springfield, one 250-hp. B. & W.; pumps, 1-3,000,000 gal., 1-2,-000,000 gal.; pumping to reservoir; av. daily cons. 2,500,000 gal.; serv. con. 2250; ord. pres. 60 to 80 lb., fire pres. 90 to 110 lb.

GREENWOOD, 5,836.

MUNICIPAL ELECTRIC LIGHT & WATER COMMISSION.

Chmn. Comrs., E. L. Monger...Greenwood
Comr., Dr. C. R. Henderson.... "
" C. E. Wright..... "
Sec., Warner Wells..... "
Supt., Roy Scott..... "
Engr. P'g. Sta., Ben Adams.... "

Artesian wells, 4 6-in. 800 ft. deep; ¼ mi. from center business section; settling basin, 170,000 gal.

Boilers, 3 return tubular 325-hp. 150 lb. W. & W. 1909, 3 water-tube 500-hp. ea. 180 lb. Heine 1914; pumps, 2-750,000 gal. comp. McGowan, 1-750,000 gal. simple Buffalo, 1-2,000,000 gal. tri. exp. Prescott 1913, 2-3,-000,000 gal. vert. centrifugal Worth. 1908–9, 1-2,600,000 gal. hor. centrifugal Alberger 1913, 1-720,000 gal. vert. cenrifugal Alberger 1913; elec. motors, two 20-hp. ea. 220 v. 3 ph. 60 cys. Westg. 1908–9, one 5-hp. 110 v. s. ph. 60 cys. Wagner; steam turbines, 850-hp. Westg. 1914; gasoline engines, 80-hp. F. M. 1913; pumping direct & to elev. tank, 100,000 gal. steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 130, hose con. 2½-in. Rensselaer; av. daily cons. 2,-000,000 gal.; serv. con. 1500; ord. pres. 45 lb., fire pres. 100 to 135 lb.

Rates; flat, $15 year, bath $4, closet $4.50; meter, 25c. 1000 gal. max., 3c. min.

GRENADA, 2,814.

MUNICIPAL.

Mayor, B. F. Thomas.....Grenada
Comr., Dr. Ferguson..... "
" T. E. Heath..... "
Supt. & Engr. P'g. Sta., S. J. Alward "

Wells, 2 10-in. 165 ft. deep; ¾ mi. from center distribution; no purification.

Boilers, two 600-hp. Sterling; hand stoking; pumps, 2-250,000 gal. steam Worth., 1-250,000 Rumsey driven by elec. motors, 15 kw. 220 v. 2 ph. 60 cys. G. E.; pumping to standpipe (1907) steel.

Pipe, 50 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in.; meters, 550 National, Hersey, Pittsburgh & Union; av. daily cons. 250,000 gal.; serv. con. 553; ord. pres. 60 to 70 lb., fire pres. same.

GULFPORT, 6,386.

MUNICIPAL.

Comr., G. W. O'Dom.....Gulfport
City Engr. & Supt.,
Hobart D. Shaw..... "
Consltg. Engr., M. F. Sullivan.... "

Artesian wells, 4 6 & 8-in. 800 to 1200 ft. deep; no purification.

Pump, driven by elec. motors, 150-hp. 2300 v. 3 ph. G. E.; pumping direct & to reservoir, 1,000,000 gal.

Pipe, 19 mi. 4 to 12-in. c. i.; hyd. 165, hose con. 2½-in. various; valves, 120 l. h. thd. Crane, F. M.; meters, 13 Thompson; serv. con. 1550; ord. pres. 10 to 25 lb., fire pres. 100 to 130 lb.

HATTIESBURG, 11,733.

MUNICIPAL.

Mayor, T. E. Batson.....Hattiesburg
Comr., E. B. Caperton..... "
" B. A. Fairley..... "
Supt., Burk Jones..... "

Wells, three 8 & 10-in. 350 to 454 ft. deep; reservoirs, 2-240,000 gal.; no purificaton.

Boilers, 3 return tubular, 2 100-hp. & one 135-hp. Casey-Hedges; hand stoking; pumps, 4-5,000,000 gal. McGowan & Blake Knowles; pumping direct & to standpipe (1898) steel.

Pipe, 19 mi. 4 to 12-in. c. i.; hyd. q80, Rensselaer & F. M.; valves, 120 r. h. thd. F. M., Pratt & Cady & Crane; meters, 15 Neptune, Worth., Hersey & National; av. daily cons. 800,000 gal.; serv. con. 1400; ord. pres. 25 to 40 lb., fire pres. 80 to 125 lb.

Rates; flat, $7 year, modern house $15 year; meters, 25c. 1000 gal.

HAZELHURST, 2,056.

MUNICIPAL.

Supt., M. L. Slay.....Hazelhurst

Wells, three 8 & 10-in. 60 ft. deep; settling basins, 2-200,000 gal.

Boilers, 2 return tubular 180-hp. Casey-Hedges; hand stoking; pumps, 2-216,000 gal. Harrisburg; elec. motors, 2 26-hp. s. ph. 60 cys. G. E.; pumping to reservoirs and elev. tank, (1902) 75,000 gal. steel.

Hyd. 25, hose con. 2½-in.; meters, 12

various; av. daily cons. 100,000 gal.; serv. con. 200; ord. pres. 65 lb., fire pres. 100 lb.
Rates; all meter, 25c. 1000 gal.

HOLLANDALE, 481.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Supt., S. M. Stousin.....Hollendale
Engr. P'g. Sta., F. P. Danfield... "
Boiler, 100-hp. W. & W.; steam engines, 40-hp. Chuse.

HOLLY SPRINGS, 2,192.
MUNICIPAL WATER & LIGHT PLANT.
Supt., Edward C. Rogers.....Holly Springs
Engr. P'g. Sta., Will Lowell. "
Boiler, 275-hp. Fitch; gas engine, 40-hp. F. M.; steam engines, 275-hp. H. S. M.

HOUSTON, 1,400.
MUNICIPAL LIGHT & WATER PLANT.
Mayor, Elliott Parker.....Houston
Clerk, W. B. Cott..... "
Supt., J. M. Nelson..... "
Boiler, 120-hp. Atlas; steam engine, 120-hp. Atlas.

INDIANOLA, 1,098.
MUNICIPAL.
Mayor, W. D. Watts.....Indianola
Marshall, P. L. Carter..... "

ITTABANA, 1,427.
MUNICIPAL.
Town Clerk, Riley Ely.....Ittabena

IUKA, 1,221.
MUNICIPAL.
Chmn. Comrs., D. L. Martin. Jr.....Iuka
Supt., J. N. Graham..... "
Springs & wells, two 8 ft. in diam., 35 ft. deep; near center business section; no purification.
Pumps, 1-30,000 gal. vert. single Jacobson 1908 belted to gasoline engine, 5-hp. Jacobson 1908; gravity distribution.
Pipe, 0.5 mi. 6-in. w. i.; hyd. 5, hose con. 3-in.; valves, one l. h. opening; meters, 66 Pittsburgh; av. daily cons. 8000 gal. 90%; serv. con. 15.
Rates; flat, $1.50 mo.; meter, min. charge $1.50 mo. 5000 gal.; 35c. 1000 gal.

JACKSON, 21,262.
MUNICIPAL.
Mayor, S. J. Taylor.....Jackson
Comr., R. M. Taylor..... "
" H. Spangler..... "
City Engr., M. L. Culley..... "
Supt., J. H. Fewell..... "
Cons. Engr., Geo. W. Fuller,
170 Broadway.....New York, N. Y...
Engr. P'g. Sta., D. H. Hull.....Jackson
Chemist, Dr. Stingly..... "
Pearl River; 3 mi. from center distribution; impounding reservoirs, 12,000,000 gal.; settling & coagulating basin, 500,000,-gal.; mechanical filters, 4,000,000 gal.; chemicals, sulphate of alumina & lime.
Boilers, 2 water-tube 200-hp. ea. Heine; hand stoking; pumps, 3-3,000,000; 4,000,000 & 6,000,000 gal. Worth. & Prescott; elec. motors, 275-hp. ea. 3 ph. 60cys. Westg.; elec. energy from Jackson Light & Traction Co.; pumping direct & to standpipe (1888) steel.
Pipe, 61 mi. 4 to 30-in. c. i.; hyd. 520, hose con. 2½ to 4-in. Rensselaer, Eddy, Ludlow & R. D. W.; valves, 542 r. h. thd. various; meters, 1620 National; av. daily cons. 3,500,000 gal.; serv. con. 4100; ord. pres. 55 lb., fire pres. 80 lb.
Rates; flat, min. $2 year; meter, 20c. 1000 gal. max., 7c. min.

LAUREL, 8,465.
MUNICIPAL.
Mayor, F. M. Meek.....Laurel
Comr., W. B. Moor..... "
" H. W. Bell..... "
Supt., B. F. Staltzfus..... "
Infiltration gallery; at center distribution; reservoir, 2-625,000 gal.
Boilers, 3 water-tube 114-hp. B. & W.; hand stoking; pumps, 3-1,000,000 gal. Worth.; pumping direct.
Pipe, 22 mi. 4 to 12-in. c. i.; hyd. 150, hose con. 2½-in. Rensselaer; valves, r. h. thd. Crane; meters, 120 National; av. daily cons. 500,000 gal.; serv. con. 1500; ord. pres. 45 lb., fire pres. 120 lb.
Rates; meter, $1.65 quarter, 15c. 1000 gal.

LELAND, 1,547.
MUNICIPAL LIGHT & WATER PLANT.
Mayor, R. M. Garrison.....Leland
Clerk, J. P. Johnson..... "
Treas., J. E. Scracs..... "
Mgr., J. S. Gorman..... "
Engr. P'g. Sta., C. H. Bowlin..... "
Boiler, 225-hp.

LEXINGTON, 2,428.
MUNICIPAL.
Supt., Hal. A. Gilliam.....Lexington
Des. Engr., Mr. Kirkpatrick.....Jackson
Artesian well, 6-in. 800 ft. deep; ½ mi. from center distribution; reservoir, 200,000 gal.; no purification.
Pumps, 2-720,000 gal. ea. Goulds con. to gasoline engine, 235-hp. Olds; pumping to elev. tank, 100,000 gal. steel.
Pipe, 6,5 mi. 4 to 12-in. c. i.; hyd. 8, ose con. 4-in. Eureka; valves, 100 r. h. thd.; meters, none; av. daily cons. 175,000 gal.; serv. con. 350; ord. pres. 50 to 60 lb., fire pres. 80 to 125 lb.

LOUISVILLE, 1,181.
MUNICIPAL.
Mayor, H. C. Wood.....Louisville
City Clerk, G. W. E. Bennet..... "
Supt., O. A. Bennet..... "
Artesian wells, 2 8 & 10-in. 407 & 470 ft. deep; near business center; no purification.
Pumps, 1-720,000 gal. hor. d. act. Epping-Carpenter 1914, 1-360,000 gal. vert. centrifugal 1914 d. con. to elec. motor; air com-

pressor, Chicago 1914; elec. energy and all power for pumping from Louisville Lt. & Pwr. Co.; pumping to elev. tank (1914) 500,000 gal. steel, Memphis Steel Const. Co.

Pipe, 6 mi. 1 to 6-in. c. & gal. i.; hyd. 25, hose con. 2½-in. Columbian; valves, r. h. opening Columbian meters, 100 Buffalo; av. daily cons. 40,000 gal. 20%; serv. con. 150; ord. pres. 20 to 40 lb., fire pres. 60 to 100 lb.

Rates; flat, $1.00 mo.; meter, min. charge $1.00 mo. 3000 gal., 25c. 1000 gal.

McCOMB, 6,237.

MUNICIPAL.

City Clerk, A. H. Jones.....McComb
Mayor, O. B. Quin..... "
Cons. Engr., X. A. Kramer.....Magnolia
Engr. P'g. Sta., J. W. Connerly...McComb

Wells, tubular; boilers, 2 return tubular 80-hp. ea. 100 lb.; pumps, 2-1,080,000 gal. hor. simple d. act., 1-342,000 gal. vert. centrifugal d. act. Layne & Bowler 1912; elec. motor, 35-hp. 2080 v. 3 ph. 60 cys. G. E. 1912; pumping to elev. tank, 100,000 gal.; serv. con. 900.

Rates; flat, $12 year.

MACON, 2,024.

MUNICIPAL WATER & LIGHT PLANT.

Mayor. J. J, Horton.....Macon
Sec. & Treas. J. J. Scott..... "
Mgr. & Cont. Agt., W. L. Bush.... "
Eng. P'g. Sta., T. J. Walthall..... "

Boiler, 250-hp. W. & W.; steam engine, 275-hp.

MAGNOLIA, 1,823.

MUNICIPAL.

Supt., X. A. Kramer.....Magnolia

Artesian well, 300 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 300-hp.; pumps, 2-720,000 gal.; pumping to elev. tanks, 100,000 gal. steel.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. Columbian; valves, 30 r. h. thd. Columbian; av. daily cons. 300,000 gal.; serv. con. 100; ord. pres. 30 to 50 lb., fire pres. 75 to 100 lb.

MERIDIAN. 22,385.

MUNICIPAL.

Mayor, John W. Parker.....Meridian
Comr., Wm. H. Owen ..... "
Mgr & Supt., M. L. Worrell..... "
Des. Engr., J. N. Chester..... "
Ch. Engr. P'g. Sta.,
A. P. Gathright..... "
Chemist, J. M. Caird,
271 River St., ...Troy, N. Y.

Impounding reservoir, 500,000,000 gal.; 2½ mi. from center distribution; settling & coagulating basins, 1,350,000 gal.; clear water basin, 900,000 gal.; mechanical filters, 6-500,000 gal. ea. Jewell; chemicals, sulphate of alumina & lime.

Boilers, 2 water-tube 450-hp. Heine & W. & W.; hand stoking; pumps, 3-10,000,-000 gal. ea. Platt, L-D-G. & Deane; pumping direct & to reservoirs, above.

Pipe, 42.2 mi. 4 to 30-in. c. i.; hyd. 308, hose con. 2½ & 4½-in. Ludlow, Pratt & Cady, Rensselaer & Columbian; valves, 300 l. h. thd. various; meters, 2800 various; av. daily cons. 2,300.000 gal.; serv. con. 4000; ord. res. 70 to 80 lb., fire pres. 100 to 155 lb.

Rates; flat, $6 year, bath $5; meters, 30c. 1000 gal. max., 6c. min.

MOSS POINT, 3,054.

MOSS POINT WATERWORKS. (Privately owned.)

Owner, Mrs. F. R. Brown..Norwich, N. Y.

NATCHEZ, 11,791.

MUNICIPAL.

Pres. Comrs., W. A. S. Wheeler...Natchez
Comr., B. C. Geisenberger..... "
" Thos. J. Junkin..... "
Supt., Thos. A. Winchester..... "
Engr. P'g. Sta., Wm. H. Hammack "

Wells, 4 8-in. 300 ft. deep; ½ mi. from center distribution; reservoir, 300,000 gal.; no purification.

Boilers, one return tubular 150-hp. H. S. G.; one water-tube 150-hp. Heine; hand stoking; pumps, 2-3,500,000 gal. Worth. & Hughes; pumping direct & to standpipe (1890) steel.

Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 195, hose con. 2½-in. Nelson & R. D. W.; valves, 136 r. h. thd. various; meters, 1170 National, Neptune & Hersey; av. daily cons. 600,000 gal.; serv. con. 1200; ord. pres. 40 to 75 lb., fire pres. same.

Rates; all meter, 40c. 1000 gal. max., 15c. min.

NEW ALBANY, 2,032.

MUNICIPAL.

Mayor, W. S. Parks.....New Albany
City Clerk, S. W. Parks..... " "
Supt., J. H. Thompson..... " "
Engr. P'g.Sta., J. C. Stevenson " "

Wells, three 6-in. 260 ft. deep.

Boilers, 2 return tubular 150-hp. ea. W. & W.; hand stoking; air compressor, Clayton; pumping to reservoir, 50,000 gal.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. meters, 170 Hersey, Neptune & Pittsburgh; av. daily cons. 650,000 gal.; serv. con. 375; ord. pres. 50 lb., fire pres. 90 lb.

Rates; flat, 75c. mo.; meters, 25c. 1000 gal.

NEWTON, 1,878.

MUNICIPAL.

Supt., H. O. McCord.....Newton

OCEAN SPRINGS, 1,472.

PEOPLES WATERWORKS CO.

Mgr., H. F. Russell.....Ocean Springs

OKOLONA, 2,584.
MUNICIPAL.
City Clerk, J. H. Davis.....Okolona
Mgr., T. M. Beatty..... "
Supt., A. W. Johnson..... "
Wells, 10-in. 640 ft. deep; ½ mi. from center business section; settling basin, 100,000 gal.
Boilers, 2 hor. tubular 80-hp. ea. 100 lb. 1896; hand stoking; pumps, one hor. 1896; steam engines, two 250-hp. Corliss & one 75-hp. high speed; elec. motors, two 150-kw. ea. 1100 v. s. ph. 60 cys. Ft. Wayne 1903, 41 kw. 1100 v. s. ph. 60 cys. Bullock 1905; pumping to reservoir, above.
Meters, 25 Buffalo; serv. con. 400.
Rates; flat, $1.50 quarter, bath $1.50, closet $1.50; meters, 35c. 1000 gal.

PASCAGOULA, 3,500.
PASCAGOULA STREET RAILWAY & POWER COMPANY.
Pres., S. A. Culbertson.....Louisville, Ky.
V. Pres. & Gen. Mgr.,
S. S. Bush..... " "
Sec., J. D. Winston..... " "
Pur. Agt. & Supt.,
R. A. Bowers.....Pascagoula
Engr. P'g. Sta.,
J. J. Hegenbothen..... "
Artesian well, 6-in. 900 ft. deep; pump, 1-432,000 gal. vert. centrifugal, Goulds 1914 d. con. to elec. motor, 20-hp. 2200 v. 3 ph. 60 cys. Westinghouse 1914; pumping to standpipe (1892) 75,000 gal.
Pipe, 3 mi. 6 & 8-in. c. i.; hyd. 43, hose con. 2½-in.; meters, 26 National; av. daily cons. 140,000 gal.; serv. con. 375; ord. pres. 35 to 50 lb., fire pres. 60 to 120 lb.
Rates; flat, $7,50 year, bath $2, closet $2; meter, min. chnrge 65c. mo., 25c. 1000 gal. max., 10c. min.

PASS CHRISTIAN, 2,458.
MUNICIPAL.
Mayor, A. P. Sancier.....Pass Christian
City Clerk, W. A. Terrell... " "
Supt., Jno. D. Northrup.... " "
Artesian wells, 8 4-in. 600 ft. to 900 ft. deep; no purification.
Distribution by natural flow of wells; hyd., hose con. 2-in.; meters, none; serv. con. 500; ord. pres. 32 lb.

POPLARVILLE, 1,272.
MUNICIPAL. POPLARVILLE LIGHT & WATERWORKS.
Mayor, J. N. Ford.....Poplarville
Supt. & Engr. P'g. Sta.,
M. H. Hall..... "
Well, 8-in. 765 ft. deep; reservoir, 75,000 no purification.
Boiler, water-tube 175-hp. Atlas; pumps, 5-720,000 gal.; elec. motors, 75-kw. 2300 v. s. ph. 60 cys. Westg.; pumping to elev. tank (1905) 65,000 gal. iron.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 3-in. Eureka; valves, 40 l. h. thd.; meters, 75 Pittsburgh; av. daily cons. gal.; serv. con. 200; ord. pres. 35 to 45 lb., fire pres. 65 to 80 lb.

PORT GIBSON, 2,252.
MUNICIPAL LIGHT & WATERWORKS.
Supt., A. C. Brownlee.....Port Gibson
Engr., P'g. Sta., R. S. Cogsdel. " "
Boiler, 285-hp. W. & W.; steam engine, 200-hp.

ROSEDALE, 1,103.
MUNICIPAL.
Supt., G. G. Thompson.....Rosedale

SARDIS, 1,406.
MUNICIPAL.
Mayor, J. F. Hightower.....Sardis

SENATOBIA, 1,275.
MUNICIPAL.
Mayor, J. B. Snider.....Senatobia
City Clerk, H. I. Gill..... "
Supt. & Engr. P'g. Sta.,
H. E. Johnson..... "
Wells, 2 4-in. 120 ft. deep; at center distribution.
Boilers, 2 fire-tube 100-hp. W. & W.; pumps, 1-432,000 gal. Burnham; air compressor, Burnham; pumping to reservoir, 22,000 gal. & elev. tank, 40,000 gal. steel.
Yyd. 20, hose con. 3-in. Rensselaer; valves, r. h. thd.; meters, 50 mostly Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 125; ord. pres. 20 to 35 lb., fire pres. 40 to 60 lb.

SHAW, 871.
MUNICIPAL.
Mayor & Des. Engr., M. B. Brister...Shaw
Supt. & Engr. P'g Sta., Chas. F. Hill.. "
Artesian well, 575 ft. deep; ¼ mi. from center distribution; no purification.
Boilers, 2 tubular 60-hp. Atlas; hand stoking; pumps, 2-720,000 & 1,440,000 gal.; pumping to elev. tank, 50,000 gal. steel.
Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 18, hose con. 3-in. Pratt & Cady; valves, 2 r. h. thd. Crane; meters, none; av. daily cons. 75,000 gal.; serv. con. 120; ord. pres. 42 to 52.5 lb., fire pres. 60 to 90 lb.

STARKVILLE, 2,698.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Mayor, H. A. Battie.....Starkville
Sec., T. G. Gunn..... "
Supt., Goe. McIngale..... "
Well, 8-in. 900 ft. deep; reservoir, 125,000 gal.; near center business section; no purification.
Boilers, 2 water-tube 125-hp. ea. 120 lb. B. & W 1910, one water-tube 90-hp. 100 lb. W. & W. 1914; pumps, 1-1,000,000 gal. comp. d. act. MGowan 1914, 1-750,000 gal. comp. d. act. McGowan 1914; air compressor, 340 cu. ft.; steam engines, 250-hp. 1909; 110-hp. Harrisburg 1914; pumping to elev. tank (1900) 55,000 gal.
Pipe, 12 mi. 4 to 8-in.; hyd. 48, hose con. 2½-in.; valves, 20 l. h. opening; meters, National; av. daily cons. 100,000 gal. 85%; serv. con. 400; ord. pres. 45 lb., fire pres. 90 to 100 lb.

Rates; meter, min. charge $1 mo. 1000 gal. 35c. 1000 gal. max., 25c. min.

SUMMIT, 1,4171.

MUNICIPAL.

Supt., E. H. Collen.....Summit

TUPELO, 3,881.

MUNICIPAL.

Mayor, D. W. Robins.....Tupelo
City Clerk, C E. Goodlett..... "
Supt., W. H. St. John..... "

Artesian wells, 5 8-in. 375 ft. deep; near center distribution; reservoir, 55,000 gal.

Boilers, 5 hor. & 10 tubular 750-hp. Cole, W. & W.; & Casey-Hedges; hand stoking; pumps, 2-2,000,000 gal. Platt; pumping to elev. tank (1904) 100,000 gal. steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in. Pratt & Cady; valves, 45 r. h. thd. Pratt & Cady; meters, 550 Hersey & National; av. daly cons. 500,000 gal.; serv. con. 525; ord. pres. 70 lb., fire pres. same.

Rates; all meter, min. charge $1 mo., 25c. 1000 gal.

VICKSBURG, 20,814.

VICKSBURG WATERWORKS COMPANY.

Supt., M. O. Crumpler.....Vicksburg

Mississippi River; pumping direct & to reservoir & standpipe.

WATER VALLEY, 4,275.

MUNICIPAL.

Chmn Comrs., J. W. Tarver..Water Valley
Comr., C. E. Romberger..... " "
" T. O. Gore..... " "
" A. H. Langdon..... " "
Supt., T. C. Barry..... " "
Engr. P'g. Sta., W. J. Tees.... " "

Wells, 18 6-in. 75 ft. deep; ½ mi. from center distribution; reservoir, 327,000 gal.; no purification.

Boilers, 2 tubular 300-hp. B. & W.; hand stoking; pumps, 2-2,520,000 gal. Knowles & Allis-C.; elec. motors, 75-kw. 2300 v. 3 ph. 60 cys. Allis-C.; pumping to standpipe (1895) iron.

Hyd. 65, hose con. 2½-in. Nelson & Rensselaer; valves, Crane & Rensselaer; meters, 825 Hersey & Thompson; av. daily cons. 80,000 gal.; ser .con. 825; ord. pres. 80 lb., fire pres. 80 to 100 lb.

Rates; all meter, min. charge $1 mo. 3000 gal. max., 25c. min.

WEST POINT, 4,864.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, David Cottrell.....West Point
Mgr. & Cont. Agt., J. H. Smith. " "
Engrs. P'g. Sta., (John Martin .. " "
(Robert Green . " "

Boiler, 250-hp. W. & W.; steam engine, 300-hp. F. & N.

WINONA, 2,512.

WINONA WATER, SEWERAGE, ICE & LIGHT COMPANY.

Pres. & Mgr., W. H. Harvey.....Winona
Supt., S. T. Ainsworth..... "

Wells, 3 8-in. 300 ft. deep; ¼ mi. from center distribution; reservoir, 150,000 gal.; no purification.

Boilers, 2 marine 150-hp. W. & W.; hand stoking; pumps, 3 deep well American, 1-2,750,000 gal. compound 1-2,750,000 gal. compound McGowan, 1-288,000 gal. Jackson driven by elec. motors, 6 kw. 220 v. s. ph. 60 cys. Century; pumping direct.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Rensselaer; valves, 24 r. h. thd. Fairbanks; meters, 300 Neptune; av. daily cons. 175,000 gal.; serv. con. 380; ord. pres. 50 lb., fire pres. 100 lb.

Rates; meters, min. charge 60c. mo., 25c. 1000 gal.

WOODVILLE, 1,233.

MUNICIPAL.

Supt., J. A. Massey.....Woodville

Artesian well; ¼ mi. from center distribution.

Boiler, fire-tube 120-hp. Southern; hand stoking; pump, 1-240,000 gal. Herron; pumping to elev. tank, 35,000 gal. steel.

Pipe, 8 mi. 4 to 12-in.; hyd. 30, hose con. 3-in.; valves, 10 l. h. thd.; meters, 105 Pittsburgh; av. daily cons. 17,000 gal.; serv. con. 115; ord. pres. 40 to 58 lb., fire pres. 60 to 100 lb.

YAZOO CITY, 6,796.

MUNICIPAL.

Chmn. Comrs., I. S. Reed.....Yazoo City
Comr., C. H. Williams..... " "
" R. S. Wheeles..... " "
" T. F. Davis..... " "
" Dr. J. Darrington..... " "
Cashier, A. R. Lacey..... " "
Supt., James F. Butler..... " "
Engr. &'g. Sta., W. R. Vernon.. " "

Artesian wells, four 6-in. 840 ft. deep; one mi. from center distribution; reservoir, 200,000 gal.; no purification.

Boilers, 4 marine 680-hp. Vogt. & B. & W.; hand stoking; pumps, 2-1,000,000 gal. & 2,000,000 gal. Worth.; pumping to reservoir, 2,200,000 gal. & to standpipe (1899) 70,000 gal. iron.

Pipe, 14.4 mi. 4 to 12-in. c. i.; hyd. 167, hose con. 2½-in. R. D. W. & Herron; valves, 124 r. h. thd. Dimmick & Crane; meters, 1128 National & Neptune; av. daily cons. 400,000 gal.; serv. con. 1250; ord. pres. 5 to 110 lb., fire pres. 35 to 140 lb.

Rates; all meter, 25c. 1000 gal. max., 7c. min.

MISSOURI

ALBA, 750.

MUNICIPAL.

Supt. & Engr. P'g. Sta., J. H. Patterson. Alba
City Clerk, Frank Shippen..... "

Well, 896 ft. deep; no purification.

Pump, 1-60,000 gal. Downie belted to gasoline engine, 20-hp. Foos; pumping to elev. tank, 55,000 gal. steel.

Pipe, 2 mi. 2 to 12-in. c. & galv. i; hyd. 20 hose con. 2½-in.; valves, 25 r. h. thd. various; meters 12; av. daily cons. 25,000 gal.; serv. con. 125; ord. pres. 30 to 45 lb., fire pres. same.

Rates; flat, $1.50 mo.; meter, 25c. .1000 gal.

ALBANY, 1,552.

MUNICIPAL.

Mayor, H. L. Graham..... Albany
Chmn. Comrs., S. E. Jones..... "
Comr., R. L. Smith..... "
Supt., W. E. Noonan..... "

Grand River; one mi. from center distribution.

Boilers, 2 return tubular 100 & 150-hp. Kewanee & Murray; hand stoking; pumps, 2-60,000 gal.; gasoline engines, 15-hp. F. M.; pumping to reservoir, 3,000,000 gal. & elev. tank (1906) 300,000 gal. iron.

Pipe, 8 mi. 4 to 12-in. c. i.; meters, 250 Pittsburgh; av. daily cons. 5500 gal.; serv. con. 250; ord. pres. 40 to 80 lb., fire pres. 120 to 250 lb.

ANDERSON, 731.

ANDERSON WATER, LIGHT, HEAT & POWER COMPANY.

Pres., B. S. Dunn..... Anderson
V. Pres., R. H. Bates..... "
Sec., W. J. Chambliss..... "
Treas., W. R. Patterson..... "
Engr. P'g. Sta., H. Totter..... "

Well, 6-in. 1000 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, 1-120,000 gal. American d. con. to elec. motors, 20 kw. 2300 v. 3 ph. 60 cys. Westg.; elec. energy generated by oil engine, Solars; pumping to reservoir, 150,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 6, hose con. 2½-in. Pratt & Cady; meters, 13 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 182; ord. pres. 50 to 80 lb., fire pres. 80 lb.

Rates; flat, $6 year; meters, 25c. 1000 gal.

BERTANY, 1,931.

MUNICIPAL LIGHT & WATER WORKS.

Mayor, Wm. Ralike..... Bethany
City Clerk, J. B. McClure..... "
Supt., J. F. Slinger..... "
Engr. of P'g. Sta., Chas. McGregor "

Creek, ½ mi. from center of business section; settling basin, 11,000 gal.; mechanical filters, 250,000 gal. Pittsburgh; chemical, sulphate of aluminum.

Boilers, 2 return tubular 125-hp. ea. 125 lb. Brownell 1912; hand stoking; pumps, 3-808,000 gal. ea. hor. centrifugal Century 1912—14; d. con. to elec. motors, 355-hp. ea. 210 v. s. ph. 60 cys. Century 1912—14; pumping to standpipe (1894) 87,000 gal.

Pipe, 7 mi. 3 to 8-in. c. i.; hyd. 53, hose con. 2½-in. Eddy & Kupferle; valves, 37 l. h. opening Crane & Ludlow; meters, 300 Neptune; av. daily cons. 80,000 gal.; serv. con. 300; ord. pres. 85 lb., fire pres. same.

Rates; all meter, min. charge 50c. mo., 30c. 1000 gal. max., 10c. min.

BLOOMFIELD, 1,147.

BLOOMFIELD ELECTRIC LIGHT, HEAT, POWER & WATER COMPANY.

Pres., T. J. Toole..... Bloomfield
Sec. J. L. Ashley..... "
Treas., J. B. Buck..... "
Gen. Mgr. & Pur. Agt.,
Wm. T. Toole..... "

Wells, two 5-in. 30 ft. deep; near business section; slow sand filters, 5000 gal.

Boilers, hor. 100-hp. ea. 100 lb. Brownell 1900; pump, 1-2,000 gal. oil well, comp. d. act., Gardner; pumping to elev. tank, 30,-000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 5 mi. 3 in. galv. i.; hyd. none, valves, 25 r. h. opening Crane; meters, 75 Neptune; av. daily cons. 5000 gal.; serv. con. 75; ord. pres. 40-60 lb., fire pres. same.

Rares; all meter, min. charge $1 mo., 2000 gal., 50c. 1000 gal. max. 25c. min.

BONNE TERRE, 5,500.

BONNE TERRE FARMING & CATTLE COMPANY.

Sec., Robert Sellars..... Bonne Terre

Channel of flowing water 400 ft. deep; ¾ mi. from center distribution; no purification.

Pumps, 1-432,000 gal. Alberger d. con. to elec. motor, 75-hp. 400 v. 3 ph. 60 cys. Westg., pumping direct & to reservoir, 1,-000,000,000 gal.

Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 115, hose con. 2½-in.; valves, 350 l. h. thd. Crane; meters, 666 Buffalo & Worth.; av. daily cons. 300,000 gal.; ord. pres. 44 to 50 lb., fire pres. same.

Rates; all meter, min. charge $5 year, 25c. 1000 gal.

BOONVILLE, 4,252.

MUNICIPAL.

Pres., H. W. Sombart..... Boonville
Comr., Hugh Roberts..... "
" Comr., J. A. Fisher..... "
Sec., J. L. Davis..... "
Supt., Dan M. Earhart..... "
Ch. Engr. P'g. Sta., Wm. Moehle "

Missouri River; ¾ mi. from center of business section; settling basins, 3-4,000,000 gal.; chemical, hypochlorite of lime and sulphate of alumina.

Boilers, one 100-hp. Brownell 1914, one relief 50-hp. 90 lb. O'Brien 1906; hand stoking; pumps, 1-1,000,000 gal. hor. d. act. Deane, 1-2,000,000 hor. comp. d. act. Platt.

1908; pumping to reservoir, 1,335,000 gal. and elev. tank (1906) 70,000 gal., steel, Chicago Bridge & Iron Works.

Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 90, hose con. 2½-in. Chapman, Ludlow & Rensselaer; valves, 45 r. & l. h. opening Crane & Chapman; meters, 160 Neptune, Pittsburgh & Worth.; av. daily cons. 550,000 gal., 50%; serv. con. 500; ord. pres. 40 lb., fire pres. 90 lb.

Rates; flat, $6 quarter, bath $2, closet $2; meter, min. charge 50c. month 1500 gal., 35c. 1000 max., 8½c. min.

BOWLING GREEN, 1,585.

Owned by J. E. THOMPSON.

Supt. & Engr. P'g. Sta.,
C. K. Lee.....Bowling Green

Spring & wells, 60 ft. deep; at center distribution; no purification.

Pumps, 2-432,000 gal. Dayton & Myers belted and d. con. to elec. motors, 2½-hp. 110 v. s. ph. 60 cys. Wagner & Century; elec. energy from local central station; pumping to elev. tank, 10,000 gal. wood.

Valves, 2 r. & l. h. thd.; meters, none; av. daily cons. 11,000 gal.; serv. con. 49.

BROOKFIELD, 5,749.

MUNICIPAL.

Mayor, E. M. Lomox.....Brookfield
City Clerk, J. D. McLoud..... "
Comr., M. C. Past..... "
" R. J. Bauchamp..... "
" Gilmer Banaiz..... "
Supt. & Engr. P'g. Sta.,
James W. Lacey..... "

Wells, 4 open 50 ft. in diameter, 40 ft. deep; no purification.

Boilers, two 100-hp. Murray; hand stoking; pumps, 2-750,000 gal. Deane; elec. motors, 15-hp. 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1890) steel.

Pipe, 10.5 mi. 4 to 12-in. c. i.; hyd. 58, hose con. 2½-in. various; valves, 66 r. h. thd. Crane; meters, 525 National; av. daily cons. 115,000 gal.; serv. con. 565; ord. pres. 68 lb., fire pres. same.

Rates; all meter, min. charge 50c. 12,000 gal., 25c. 1000 gal.

BRUNSWICK, 1,606.

BRUNSWICK LIGHT & WATER COMPANY.

Pres., J. P. Nickell.....Marceline
V. Pres., Sec. & Mgr.,
L. A. Nickell.....Brunswick

Grand River & well, 20 ft. in diam. 30 ft. deep; no purification.

Boilers, 2 fire-tube 150-hp. ea. Atlas & Murray; hand stoking; pumps, 1-288,000 gal. steam Snow, 1-288,000 gal. triplex Deane belted to elec. motor, 12-kw. 220 v. d. c. Ft. Wayne; pumping to standpipe (1904) 30,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i. ;hyd. 13, hose con. 2½-in.; valves, 4 l. h. thd.; meters, none; av. daily cons. 150,000 gal.; serv. con. 90; ord. pres. 60 to 81 lb., fire pres. same.

Rates; flat, $1 mo.

BUTLER, 2,894.

MUNICIPAL.

Mayor, H. G. Cook.....Butler
City Clerk, J. F. Smith..... "
Supt., H. M. Cannon..... "
Cons. Engr., E. E. Harper
Temple Bldg.....Kansas City, Mo.

Miama River; 5 mi. from center distribution; impounding reservoir, 1,000,000 gal.; purification works being planned.

Pumping equipment will be changed from steam to electric which will pump to standpipe.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 86, hose con. 3½-in.; av. daily cons. 250,000 gal.; serv. con. 400; ord. pres. 40 to 50 lb., fire pres. 40 to 130 lb.

CAINSVILLE, 887.

MISSOURI ELECTRIC, GAS & WATER COMPANY.

Pres., H. B. Tyson.....Norristown, Pa.
Sec. & Treas., B. H. Alderfer " "
Supt., L. J. Beauregard.....Cainsville

This company holds a franchise but does not operate a waterworks.

CALIFORNIA, 2,154.

MUNICIPAL.

Supt. & City Engr., F. T. Porter. California

Wells, two 6-in. 500 ft. deep; ½ mi. from center distribution; reservoir, 72,000 gal.; no purification.

Pumps, 2-72,000 gal. F. M. belted to elec motors, two 10-hp. 220 v. 3 ph. 60 cys. G E.; elec. energy from California Electric Light & Pwr. Plant.; pumping direct and to standpipe (1910) 52,000 gal. steel.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 100, hose con. 3-in.; valves, 15; meters, 102 Pittsburgh; av. daily cons. 85,000 gal.; serv. con. 102; ord. pres. 45 lb., fire pres. same.

Rates; all meter, min. charge 75c. mc 25c. 1000 gal.

CAMERON, 2,980.

MUNICIPAL.

Mayor, H. T. Lawrence.....Cameron
Chmn. Comrs., J. C. Sloan..... "
City Clerk, C. Staples..... "

Impounding reservoir & well, 16-in. 20 ft. deep; 2 mi. from center distribution; no purification.

Pumps, 2 Deane driven by elec. motors, 240-hp. 220 v. 3 ph. 60 cys. G. E.; pumping to elev. tank (1904) 70,000 gal. iron.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 50 Rensselaer; meters 200 National & Hersey; serv. con. 200; ord. pres. 45 lb., fire pres. 150 lb.

Rates; all meter, 30c. 1000 gal. max., 10c. min.

CANTON, 2,218.

MUNICIPAL.

Supt., W. Dusenberry.....Canton
Engr. P'g. Sta., Wm. Schiever..... "

Mississippi River; ½ mi. from center distribution; mechanical filters, 1-150,000 gal.; chemical, sulphate of alumina.

Boilers, 2 fire-tube 160-hp. Murray; hand stoking; pumps, 1-720,000 gal. steam d. act. Gardner, 1-216,000 gal. centrifugal Dayton d. con. to elec. motor, 15-kw. 244 v. 2 ph. 60 cys. Westg.; pumping to reservoir, 150,000 gal.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 38, hose con. 2½-in.; valves, 8 r. & l. h. thd.; meters, 159 Pittsburgh; av. daily cons. 42,000 gal.; serv. con. 155; ord. pres. 40 to 100 lb., fire pres. 80 to 100 lb.

Rates; all meter, 30c. 1000 gal. max., 8c. min.

CAPE GIRARDEAU, 8,475.

MISSOURI PUBLIC UTILITIES COMPANY. Office, Railway Exchange Bldg., St. Louis.

Pres., H. Wurdack.....St. Louis, Mo.
V. Pres., W. A. Smith..... " " "
Sec., Horace W. Beck..... " " "
Treas., E. M. Kurtz..... " " "
Pur. Agt., P. Ziegenfus..... " " "
Cons. Engr., E. S. Billings... " " "
Supt. & Mgr., A. M. Tinsley. Cape Giradeau
Engr. P'g. Sta., W. L. Hall... " "

Mississippi River; 1½ mi. from center distribution; settling and coagulating basins, 2-2,250,000 gal.; chemicals, hypochlorite of lime & iron sulphate.

Boilers, 2 water-tube 500-hp. Heine; hand stoking; pumps, 2-500,000 gal. ea. Deane, 1-500,000 gal. Alberger, 1-1,500,000 gal. Knowles; elec. motors, 15 kw. 220 v. 3 ph. 60 cys. Westg.; elec. energy from plant in connection; pumping to reservoir, 1,000,000 gal.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 117 Nelson; valves, 60 r. h. thd. various; meters, 817 Worth.; av. daily cons. 800,000 gal.; serv. con. 2100; ord. pres. 60 to 80 lb., fire pres. 60 to 125 lb.

Rates; meter, min. charge $5 year, 30c. 1000 gal. max., 8c. min.

CARROLLTON, 30,452.

CARROLLTON WATER, LIGHT & TRANSIT COMPANY.

Pres., S. J. Jones.....Carrollton
V. Pres., T. L. West..... "
Sec., P. L. Trotter..... "
Treas., J. T. Marshall..... "
Supt., H. W. Graham..... "
Engr. P'g. Sta., F. McDonald... "

Wells, 78 1½ & 2-in. 25 & 30 ft. deep; ¾ mi. from center distribution; no purification.

Boilers, 3 water-tube 700-hp. Sterling & Murray; hand stoking; pumps, 6-2,880,000 gal. Worth.; elec. motors, 75 kw. 550 v. d. c.; pumping to standpipe (1900) steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 79, hose con. 2½-in. Holly, Nelson & Rensselaer; valves, 38 l. h. thd. Holly, Nelson & Rensselaer; meters, 112 Thomson & Pittsburgh; av. daily cons. 500,000 gal.; serv. con. 565; ord. pres. 85 to 100 lb., fire pres. 100 to 150 lb.

Rates; flat, $5.05 year, bath $3.90, closet $2.70; meters, min. charge 70c. mo. 2800 gal., 25c. 1000 gal. max., 11c. min.

CASSVILLE, 781.

MUNICIPAL.

Mayor, J. S. Plattenbury.....Cassville
City Clerk, J. F. Black..... "
Supt., Bon Manley..... "
Engr. of P'g. Sta., D. Dingler..... "

Spring; ¼ mi. from business section; no purification.

Pumps, triplex driven by elec. motor; pumping to reservoir & elev. tank (1905), 35,000 gal. steel.

Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 20, hose con. 2-in.; valves, 6 r. & l. h. opening; meters, none; av. daily cons. 70,000 gal.; ord. pres. 60 to 85 lb.

Rates; flat, bath $1.02 year, closet $1.02; meter, min. $1.59 quarter, 20c. 1,000 gal. max., 10c. min.

CHILLICOTHE, 6,652.

CITY WATER COMPANY OF CHILLICOTHE MO. Office, 43 Cedar St., New York, N. Y.

Pres., C. F. Street.....New York, N. Y.
Gen. Mgr., E. L. Street... " " " "
Supt., F. B. Wheeler.....Chillicothe
Engr. P'g. Sta., Earl Dupy. "

Grand River & wells, three 20-ft. in diam. 25 ft. deep; 3 mi. from center business section; reservoir, 1,000,000 gal.; no purification.

Boiler, one hor. tubular 150-hp. 125 lb. Batemen 1908, one wtr. tube 150-hp. 125 lb. B. & W. 1912; hand stoking; pumps, 2-1,000,000 gal. ea. hor. comp. d. act. Worth. 1886, 2-1,500,000 gal. ea. hor. comp. d. act. Worth. 1908; steam engine, 6-hp. 1908; pumping direct.

Pipe, 14 mi. 4 to 12-in c. i.; hyd. 134, hose con. 2½-in. Ludlow, R. D. W. & Rensselaer; valves, 49 r. & l. h. opening; meters, 770 Buffalo; av. daily cons. 600,000 gal. 75%; serv. con. 1160; ord. pres. 40 to 60 lb.; fire pres. 60 to 80 lb.

Rates; meter, min. charge $1.00 mo. 2,000 gal., 50c. 1,000 gal. max., 10c. min.

CLINTON, 4,992.

CLINTON LIGHT & WATER COMPANY. Office, 115 East Franklin St.

Pres., J. T. Marsh.....Clinton
Supt. & Pur. Agt., V. F. Cole..... "
Treas., J. L. Woolfolk.....Kansas City

Artesian wells, 3; one mi. from business section; no purification.

Boilers, 3 tubular 70 80 & 100-hp. Brownell & Springfield; hand stoking; pump, 1-1,400,000 gal. Deane, 1-900,000 gal. Deane; pumping direct and to standpipe (1885) and reservoir, 2,000,000 gal.

Pipe, 10 mi. 4 to 12-in c. i.; hyd. 80, hose con. 2½-in. Eddy & Kupferle; valves, 54 r. & l. h. thd.; meters, 107 various; av. daily cons. 6,000,000 gal.; serv. con. 784; ord. pres. 40 to 60 lb.; fire pres. 90 to 125 lb.

Rates; flat, $1.06 year, bath $1.03, closet $1.02; meter, min. charge 50c. mo. 1,428 gal., 35c. 1,000 gal.

COLE CAMP, 510.
MUNICIPAL.
Mayor, J. D. Freund.....Cole Camp
City Clerk, R. W. Hedrick..... " "
Wells, 50 2 ft. deep; near center distribution.
Pump operated by elec. motors; elec. energy from Cole Camp Electric Co.; pumping to elev. tank, 35,000 gal. iron.
Hyd. 11; av. daily cons. 3000 gal.; serv. con. 60.
Rates; flat, $10 year; meter, 35c. 1000 gal.

COLUMBIA, 5,662.
MUNICIPAL. Columbia Water & Light Department.
Mayor, W. P. Moore.....Columbia
Chmn. Comrs., P. S. Quinn..... "
City Clerk, John Bicknell..... "
Supt., M. E. Fawks..... "
Wells, six 10 to 16-in. 800 to 1000 ft deep; 1½ mi. from center distribution; reservoir, 15,000,000 gal.; no purification.
Boilers, 3 water-tube 400-hp. Heine; mechanical stoking, Green; pumps, 3-2,880,000 gal. Carpenter & Worth.
Pipe, 30 mi. 4 to 12-in.; hyd. 175, hose con. 2½-in. various; valves, 125 r. & l. h. thd.; meters, 1500 various; av. daily cons. 600,000 gal.; ord. pres. 40 to 50 lb., fire pres. 55 to 120 lb.

CONCORDIA, 931.
MUNICIPAL.
Supt., Fred Schlickelmann.....Concordia
City Clerk, Otto Walkenborst.... "
Well, 14-in. 530 ft. deep; at center distribution; no purification.
Pumps, 1-72,000 gal. Keystone driven by gasoline engine, 19-hp. Otto; pumping to elev. tank, 44,000 gal. wood.
Pipe, 0.75 mi. 4 to 12-in. c. i.; hyd. 10, hose con. 2½-in.; meters, 72 National; av. daily cons. 8000 gal.; serv. con. 52; ord. pres. 33 lb., fire pres. same.
Rates; meter, 50c. 1000 gal.

EXCELSIOR SPRINGS, 3,900.
EXCELSIOR SPRINGS WATER, GAS & ELECTRIC COMPANY.
Pres., W. A. J. Bell.....Excelsior Springs
V. Pres. & Gen. Mgr., F. W. Henderson..... " "
Sec. & Treas., J. E. Lundstrum..... " "
Engr. P'g. Sta., M. J. Pratt " "
Missouri River & wells, two 12-in. 90 ft. deep; 8 mi. from center distribution; settling and coagulating basins, 500,000 gal.; mechanical filters, 1,000,000 gal.; chemical, lime.
Boilers, 2 fire-tube 200-hp. Kewanee; hand stoking; pumps, 1-1,000,000 gal. Platt, 1-1,000,000 gal. centrifugal Worth. driven by elec. motors, 440 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 1,250,000 gal. and standpipe (1906) iron.
Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 68, hose con. 2½-in. various; meters, 785 National; av. daily cons. 450,000 gal.; serv. con. 500; ord. pres. 60 lb., fire pres. same.
Rates; meters, 15c. 1000 gal. max., 10c. min.

FAYETTE, 2,586.
MUNICIPAL. Fayette City Water Works.
Mayor, T. B. Chenneworth.....Fayette
City Clerk, Jim Kelley..... "
Engr. P'g. Sta., S. W. Brundage... "
Small pond; 1½ mi. from business section; no purification.
Boiler, 300-hp. Kewanee; hand stoking; pumps, 2-500,000 gal. ea. Fairbanks 1906; pumping to elev. tank (1906) 80,000 gal. steel.
Hyd. 24, hose con. 2½-in.; meter, 200; av. daily cons. 50,000 gal.; serv. con. 200 ord. pres. 75 to 80 lb., fire pres. 100 to 125 lb.
Rates; all meter, min. charge 50c. mo. 1000 gal., 40c. 1000 gal. max., 20c. min.

FULTON, 5,228.
MUNICIPAL.
Comr., P. E. Baker.....Fulton
Supt., W. J. McCarroll..... "
Wells, two 8 & 9-in. 800 & 1100 ft. deep; ½ mi. from center distribution; reservoir, 132,000 gal.
Boilers, 3 return tubular 150-hp. ea. Titus & Erie; hand stoking; pumps, one deep well Ingersoll-Rand and 1-360,000 gal. centrifugal driven by elec. motor, 11 kw. 220 v. 2 ph. 60 cys. G. E.; pumping to standpipe (1889) steel.
Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 80, hose con. 2½-in. Nelson & American; valves, 32 4. & l. h. thd.; meters, 450 Pittsburgh, National & Neptune; av. daily cons. 164,000; serv. con. 800; ord. pres. 40 lb., fire pres. 100 lb.
Rates; flat, $1.50 quarter; meter, 25c. 100 cu. ft.

GALLATIN, 1,865.
MUNICIPAL.
City Clerk, A. M. Irving.....Gallatin
Supt., J. J. Carter..... "
Well, 13 ft. in diam., 47 ft. deep; ¾ mi. from center distribution.
Boilers, 2 fire-tube 150-hp. ea. Erie; hand stoking; pumps, 1-576,000 gal. Deane; pumping to standpipe (1898) wood and steel.
Pipe, c. i.; hyd. 40, hose con. 4-in. Rensselaer; meters, 160 Neptune; av. daily cons. 80,000 gal.; serv. con. 160; ord. pres. 40 to 50 lb., fire pres. same.
Rates; meter, 50c. 1000 gal. max., 20c. min.

GLASGOW, 1,507.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Mayor, A. B. Price.....Glasgow
Comr., G. K. Richardson..... "
Pur. Agt., C. H. Barner..... "
Sec., V. R. Bowen..... "
Supt. & Engr. P'g. Sta., R. F. Blacet "

Missouri River; ½ mi. from business section; settling basins, 140,000 gal.

Boilers, 2 return tubular 100-hp. ea. 125 lb. Frost 1911; pump, 1-400,000 gal. hor. comp. d. act. Worth. 1900, 1-400,000 vert. centrifugal American 1911; d. con. to elec. motor, 3 ph.; steam engines, 85-hp. Ridgway 1914, two 150-hp. ea. Ridgway 1911; pumping to standpipe (1890) 42,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 28, hose con. 2½-in. National & Rensselaer; valves, 14 r. h. opening; meters 125 Pittsburgh, Thomson & Hersey; av. daily cons. 45,000 gal.; serv. con. 150; ord. pres. 20 to 90 lb.

Rates; meter, min. charge $1.00 mo. 2,500 gal. 40c. 1000 gal. max., 15c. min.

HANNIBAL, 18,341.

MUNICIPAL.

Supt., A. M. Nipper.....Hannibal
Engr. P'g. Sta., Wm. Vansteenberg "
Chemist, Wilson Monfort..... "

Mississippi River; settling basins, 16,000,000 gal.; chemical, hypochlorite of lime.

Boilers, 3 fire-tube 500-hp.; hand stoking; pumps, 2-6,500,000 gal. Allis & Worth.; pumping to reservoir, above.

Pipe, 35 mi. 4 to 30-in. c. i.; hyd. 150, hose con. 2½-in. R. D. W.; meters, 400 various; av. daily cons. 1,500,000 gal.; serv. con. 3500; ord. pres. 100 lb. fire pres. same.

HARRISONVILLE, 1,947.

HARRISONVILLE WATER COMPANY.

Pres., John A. Davis.....Harrisonville
V. Pres., T. T. Railey..... "
Sec. & Treas., R. W. Adams... "
Engr. P'g. Sta., E. E. Bunn.... "

Lake Luna; ½ mi. from center distribution; impounding reservoir, 30 acres; mechanical filters, 150,000 gal.; chemical, hypochlorite of lime & copper sulphate.

Pump, 1-564,000 gal. Deming driven by gasoline engine, 25-hp. F. M.; pumping to standpipe (1910) concrete.

Pipe, 3.5 mi. 4 to 12-in. c. i.; hyd. 17, hose con. 2½-in. Renssalaer; valves, 21 Chapman; meters, 97 Pittsburgh & Buffalo; av. daily cons. 75,000 gal.; serv. con. 175; ord. pres. 20 to 35 lb.

HERMANN, 1,592.

MUNICIPAL.

Mayor, A. B. Walker.....Hermann
Comr. & Supt., Aug. Wohlt..... "
Engr. P'g. Sta., Wm. Paneitz..... "

Missouri River; settling and coagulating basins 80,000 gal.; slow sand filters, 400,000 gal.; chemicals, sulphate of alumina.

Pumps driven by gasoline engines, 225-hp. Otto; pumping direct & to reservoir, above.

Pipe, 5mi. 4 to 8-in. c. i.; hyd. 37, hose con. 2½-in. Iowa; valves, r. h. thd.; meters 120 Buffalo & Neptune; av. daily cons. 15,000 gal.; serv. con. 108; ord. pres. 30 to 85 lb., fire pres. same.

Rates; meters, min. charge 80c. mo. 2000 gal., 15c. 1000 gal.

HIGGINSVILLE, 3,628.

MUNICIPAL.

Mayor, S. J. Klinschmidt.....Higginsville
City Clerk, Ralph Heuscher.... "
Supt., D. Riepe..... "
Engr. P'g. Sta., Arnold Vermillion "

Wells, two 8-in. 735 ft. deep; near center distribution; reservoir, 2-500,000 gal.

Boilers, 2 fire-tube 125-hp.; hand stoking; pump, one Deane; pumping direct.

Pipe, 6 mi. 4 to 12-in.; hyd. 42, hose con. 2½-in. Ludlow; valves, 8 r. h. thd. Ludlow; meters, 90 Neptune, Hersey & Thomson; av. daily cons. 15,000 gal.; serv. con. 210; ord. pres. 30 to 40 lb., fire pres. 100 to 125 lb.

Rates; flat, $8 year, bath $4, closet $6; meters, 40c. 1000 gal. max., 25c. min.

HUMANSVILLE, 913.

MUNICIPAL.

Spring & reservoir, 500,000 gal.; ½ mi. from center distribution; no purification.

Pump, 1-720,000 gal. Worth. belted to elec. motor, 25-kw. A. C. Western; gasoline engine, 40-hp. Witte; pumping to elev. tank (1905) 30,000 gal. steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 3-in. Rensselaer; valves, 5 r. h. thd. Rensselaer; meters, 56 Buffalo; av. daily cons. 30,000 gal.; serv. con. 82; ord. pres. 30 lb., fire pres. 60 lb.

INDEPENDENCE, 9,855.

INDEPENDENCE WATER WORKS COMPANY.

Pres., A. N. Gosaelt.....Independence
V. Pres., Robt. Ranken..... "
Sec., Thos. Madden..... "
Treas., E. T. Kimball..... "
Supt., H. A. Gallagher..... "
Engr. P'g. Sta., G. W. Goodman "
Chemist, Ray Cross.....Kansas City

Missouri River; settling and coagulating basin, 5,000,000 gal.; chemical, hypochlorite of lime, sulphate of iron & lime.

Boilers, 2 hor. tubular 120-hp. Springfield; hand stoking; pumps, 1-4,000,000 gal. Holly, 1-5,000,000 gal. Worth., 2-2,500,000 gal. De Laval; elec. motors, 2200 v. 3 ph. 25 cys. G. E.; pumping to standpipe (1902) steel.

Pipe, 27 mi. 4 to 20-in. c. i.; hyd. 138, hose con. 2½-in. Renssalaer, R. D. W., Iowa & Chapman; meters, 1700 National, Neptune, Thomson & Pittsburgh; av. daily cons. 1,000,000 gal.; serv. con. 2400; ord. pres. 40 to 50 lb., fire pres. 100 to 190 lb.

Rates; flat, $7 year, bath $2, closet $2.25; meter, 25c. 1000 gal. max., 8c. min.

JEFFERSON CITY, 11,850.

CAPITAL CITY WATER COMPANY.

Pres., W. H. Donner.....Jefferson City
V. Pres. & Des. Engr., J. N. Chester,
Union Bk. Bldg., Pittsburgh, Pa.
Sec. & Treas.,
Thos. Fleming, Jr..... " "
Supt., L. B. Landmann.....Jefferson City

Missouri River; 1½-mi. from center distribution; settling basin, 75x100 ft. & 78x130 ft.; chemical, hypochlorite of lime.

Boilers, one water-tube 150-hp. Wangler, one water-tube 175-hp. Heine; hand stoking; pumps, 4 duplex Gordon, one L-D-G; pumping to standpipe, steel.

Pipe, 19.7 mi. 4 to 12-in. c. i.; hyd. 151, hose con. 2½-in. Ludlow; valves, 106 Ludlow; meters, 477; av. daily cons. 880,000 gal., serv. con. 1387; ord. pres. 19 to 102 lb., fire pres. 44 to 127 lb.

JOPLIN, 32,037.

JOPLIN WATER WORKS COMPANY. (Controlled by the American Water Works and Electric Company., 50 Broad St., New York, N. Y.)

Pres., C. H. Taylor.....New York, N. Y.
V. Pres., A. M. Lynn..... " " " "
Sec., Leo. Pile..... " " " "
Treas.& Supt.,H. R. Wheeler.....Joplin
Des. Engr.,G. W. Biggs,Jr..New Rork, N. Y.
Chemist, W. Donaldson... "

Shoal Creek; 3 mi. from center business section; settling and coagulating basins, 2,500,000 gal.; mechanical filters 7,500,000 gal. chemicals, sulphate of alumina.

Shoal Creek Sta.: boilers, 3 tubular 300-hp. R. D. W.; hand stoking; pumps, 5-14,000,000 gal. 2 Worth., 2 Deane & one Prescott; Blendville Sta.: boilers, 4 hor. tubular and wtr. tube 570-hp. Heine & Geary; hand stoking; pumps, 5-17,500,000 gal. Allis, Blake, Deane, and Prescott; pumping direct and to clear wtr. basin, 300,000 gal., & standpipe, steel.

Pipe, 60 mi. 4 to 30-in. c. i.; hyd. 374, hose con. 2½-in. Ludlow; valves, Ludlow; meters, 1754; av. daily cons. 3,800,000 gal.; serv. con. 5753; ord. pres. 50 to 65 lb. fire pres. 100 lb.

KAHOKA, 1,758.

MUNICIPAL.

Chmn. Comrs., C. G. Lang.....Kahoka
Comr., John Seyb..... "
Supt., A. H. Frazer..... "

Well, 8-in. 500 ft. deep; near center distribution; reservoir, 22,000 gal.; no purification.

Boilers, 2 hor. tubular, 120-hp. Kewanee; hand stoking; pumps, 1-432,000 gal. Kewanee; elec. motors, 3 ph. 60 cys. G. E.; pumping direct.

Pipe, 2.7 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in. Rensselaer; valves, 14 r. h. thd.; meters, 27 various; av. daily cons. 5000 gal.; serv. con. 40; ord. pres. 20 lb., fire pres. 80 lb.

Rates; meter, 50c. 1000 gal.

KENNETT, 3,033.

MUNICIPAL.

Mayor, Clyde Oakes.....Kennett
Supt. & Comr., F. L. Grose..... "
Cons. Engr., F. L. Wilcox..... "
Engr. P'g. Sta., Wm. Lacy..... "

Wells, two 8-in. 65 ft. deep; no purification.

Pumps, 1-504,000 gal. Goulds driven by oil engines, two 30-hp. Remington; pumping to elev. tank (1914) 70,000 gal. steel.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 82, hose con. 2½-in. Rensselaer; valves, 125; meters, 92 Pittsburgh; av. daily cons. 45,000 gal.; serv. con. 106; ord. pres. 45 to 56 lb., fire pres. 120 lb.

Rates; all meter, min. charge 75c. mo. 2000 gal., 25c. 1000 gal. max., 15c. min.

KIRKSVILLE, 6,347.

MUNICIPAL.

Chariton River; 7 mi. from center distribution; no purification.

Boilers, 4 fire-tube 125-hp. O'Brien; hand stoking; pumps, 3-2,300,000 gal. Gardner; oil engines, 25-hp. F. M.; pumping direct & to reservoir, 14,000,000 gal.

Pipe, 6.75 mi. 4 to 12-in.; hyd. 78, hose con. 2½-in. Ludlow; valves, 48 r. h. thd. Crane; meters, 760 Neptune, Buffalo & National; av. daily cons. 275,000 gal.; ord. pres. 25 to 60 lb., fire pres. 90 to 120 lb.

Rates; all meter, 35c. 1000 gal. max., 15c. min.

LA GRANGE, 1,360.

MUNICIPAL.

Mayor, C. C. Crouch.....La Grange
Clerk, C. Bogarth..... " "
Ch. Engr. P'g. Sta., C. H. Hoskins " "

Mississippi River; at center distribution; slow sand filter, 432,000 gal.; chemical, sulphate of alumina.

Boilers, one return tubular 75-hp.; hand stoking; pumps, 1-216,000 gal. Deane; pumping to standpipe (1914) 80,000 gal. iron.

Hyd. 28, hose con. 2½-in. Chicago; valves, 13 r. h. thd. Ludlow; meters, 12 Hersey; serv. con. 12; ord. pres. 80 to 94 lb., fire pres. same.

Rates; meter, 40c. 1000 gal. max., 35c. min.

LAMAR, 2,316.

MUNICIPAL WATER & ELECTRIC LIGHT PLANT.

Mayor & Chmn. Comrs.,Thos. Egger.Lamar
Comr., J. M. Earp..... "
" E. E. Isenhower..... "
Supt., Chas. H. Hall..... "
Engr. P'g. Sta., Leon Horn..... "

North fork of Spring River; 2.5 mi. from center business section; impounding reservoir, 6,700,000 gals.; settling and coagulating basins, 600,000 gal.

Boilers, 2 marine 150-hp. Freeman; hand stoking; pumps, 4-1,296,000 gal. Platt and American d. con. to elec. motor, two 50-hp. two 10-hp. 2300 & 220 v. 3 ph. 60 cys. Allis-C. & Ft. Wayne; pumping to standpipe (1890) iron.

Pipe, 8.45 mi. 4 to 12-in. c. i.; hyd. 66, hose con. 2½-in. Rensselaer & Kupferle; valves, 22 l. h. thd.; meters, 230; av. daily cons. 150,000 gal.; serv. con. 230; ord. pres. 30 to 60 lb., fire pres. 70 to 150 lb.

Rates; meter, min. charge 50c. 2000 gal. 25c. 1000 gal. max., 15c. min.

LIBERTY, 2,980.

MUNICIPAL.

Supt. & City Engr., E. K. Carter...Liberty
Cons. Engr., W. Kiersted
640 Midland Bldg.....Kansas City, Mo.

Wells, five 6-in. 62 ft. deep; 3½ mi. from center distribution; reservoir, 100,000 gal.; mechanical filters, 500,000 gal.

Boilers, 2 hor. tubular 70-hp. Kewanee; hand stoking; pumps, 2-720,000 gal. duplex comp. Platt & Snow; pumping to elev. tanks (1905) 60,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. Eddy & Clow; valves, 55 r. h. thd.; meters, 625 mostly Thomson; av. daily cons. 200,000 gal.; serv. con. 650; ord. pres. 60 to 160 lb., fire pres. 80 to 180 lb.

Rates; meter, 25c. 1000 gal. max.

LOUISIANA, 4,454.

LOUISIANA WATER COMPANY. (Controlled by American Waterworks and Electric Company, 50 Broad St., New York, N.Y.)

Pres., G. E. Hoffmaster...New York, N. Y.
V. Pres., J. C. Adams..... " " " "
Sec., F. R. Berry..... " " " "
Treas., B. C. Hovis..... " " " "
Supt., J. E. Miller.....Louisiana

Mississippi River; coagulating tanks, two 20 ft. in diam. 16 ft. deep, one 35 ft. in diam. 20 ft. deep; mechanical filters, 1,600,000 gal.; chemicals, sulphate of alumina & lime.

Boilers, 2 return tubular 150-hp.; hand stoking; pumps, 1-1,500,000 gal. L-D-G., 2-2,750,000 gal. Worth.; pumping direct & to reservoir, 1,500,000 gal.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 66; meters, 132 various; av. daily cons. 475,000 gal.; ord. pres. 90 to 100 lb., fire pres. 140 lb.

MACON, 3,584.

MUNICIPAL. Macon Water, Light & Power Co.

Supt., C. F. Thudium.....Macon

Impounding reservoirs fed by East Fork Creek; 2 mi. from center distribution; no purification.

Pumps driven by elec. motors, 30 & 75 kw. 2300 v. 3 ph. 60 cys. Ft. Wayne; pumping to standpipe (1909) iron.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½-in. R. D. W.; valves, 24 r. & l. h. thd.; meters, 200 Pittsburgh; av. daily cons. 400,000 gal.; serv. con. 400; ord. pres. 40 to 55 lb., fire pres. 90 to 120 lb.

Rates; meters, min. charge $6 year, 25c. 1000 gal. max., 8c. min.

MARCELINE, 3,920.

MUNICIPAL.

Mayor, W. L. Sutton.....Marceline
City Clerk, L. E. Sheldon..... "
Supt., J. S. Chumley..... "
Engr. P'g. Sta., W. E. Whisevand. "

Impounding reservoir; 1.5 mi. from center business section; no purification.

Boilers, 2 return tubular 150-hp. ea. 150 lb. Murray 1913; pumps, 2-700,000 gal. ea. tri. exp. 1909; steam engines, 100 & 125-hp. Murray 1913; pumping to reservoir, 10,120,000 gal. and standpipe (1909) 125,000 gls.

Pipe, 6 mi. 6 to 12-in. c. i.; hyd. 30, hose con. 4-in. Ludlow; valves, 10 l. h. opening Crane; meters, 50 Pittsburgh; ord. pres. 40 to 57 lb., fire pres. same.

Rates; meter, min. charge $1.00 mo. 3000 gal., 15c. 1000 gal.

MARSHALL, 4,869.

MUNICIPAL.

Mbr. Bd. Pub. Wks., L. M. Steele..Marshall
" W. F. Fisher..... "
" Chas. Petry..... "
" Henry Louenstein..... "
Sec., C. D. Alexander..... "
Supt. & Engr. P'g. Sta., V. J. Bedell "

Wells, six 5 to 8-in. 128 to 136 ft. deep; one mi. from center distribution; reservoir, 600,000 gal.

Boilers, 2 tubular 75 & 125-hp. Kewanee; hand stoking; pumping direct.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 120, hose con. 2½-in. Ludlow & Renssalaer; valves, 30, l. h. thd. Ludlow; meters, 880 various; av. daily cons. 650,000 gal.; serv. con. 880; ord. pres. 20 to 25 lb., fire pres. 80 to 100 lb.

Rates; all meter, min. charge $1 3000 gal., 20c. 1000 gal.

MEMPHIS, 1,984.

MUNICIPAL.

Chmn. Comrs., Edward Scott....Memphis
Comr., Geo. C. Forrester..... "
Sec., Earl McDaniel..... "
Supt., S. H. Craig..... "
Cons. Engr., C. J. Weigner..... "

Well, 21 ft. in diam. 28 ft. deep, & reservoir; ½ mi. from center business section; no purification.

Pumps, 1-425,000 gal. triplex Goulds 1896, driven by elec. motor, 30-hp. 220 v. D. C. Eddy 1896; pumping to elev. tank (1906) 58,000 gal. wood.

Pipe, 2 mi. 4 to 8-in c. i.; hyd. 23 hose con. 3-in. Renssalaer; valves, r. h. opening; av. daily cons. 16,000 gal.; ord. pres. 45 to 80 lb.

Rates; flat, $5 year.

MOBERLY, 10,923.

MUNICIPAL.

Pres. Bd. Pub. Wks., H. A. Hatfield.Moberly
Mbr., Swan McDonald..... "
" E. R. Hickerson..... "
Supt., C. H. Chamblin..... "

Impounding reservoir, 100,000,000 gal. and wells, three 6-in. 500 ft. deep; one mi. from center distribution.

Boilers, 3 tubublar 125-hp. ea. Frost; hand stoking; pumps, 2-3,000,000 gal. Platt & Worth.; pumping direct.

Pipe, 15 mi. 4 to 14-in. c. i.; hyd. 97, hose con. 2½-in. Ludlow; meters, 1256 Worth., Neptune & Standard; av. daily cons. 350,000 gal.; serv. con. 1400; ord. pres. 40 to 60 lb., fire pres. 60 to 90 lb.

Rates; meter, min. charge 50c. mo. 3000 cu. ft., 37.5c. 100 cu. ft. max., 15c. min.

MONROE CITY, 1,949.
MUNICIPAL.
Mayor, J. S. Scott.....Monroe City
City Clerk, G. W. Tompkins.. "
Supt., O. R. Emerson..... "
Impounding reservoir, 46,000,000 gal.; 1½-mi. from center distribution; settling and coagulating basins, 125,000 gal.; mechanical filters, 432,000 gal.; chemicals, sulphate of alumina & hypochlorite of lime.
Pumps, 1-720,000 gal., 1-423,000 gal.; elec. motors, two 35 & 100-hp. 2300 v. 3 ph. 60 cys. G. E., 2, 5 & 15-hp. 220 v. 3 ph. 60 cys. G. E.; electric energy from city light & power plant; pumping to elev. tank (1913) 70,000 gal. steel.
Pipe, 10 mi. 4 to 12-in .c. i.; hyd. 25, hose con. 2½-in.; meters, 105 Thomson; av. daily cons. 40,000 gal.; serv. con. 105; ord. pres.45 to 60 lb., fire pres. 45 to 150 lb.
Rates; meter, min. charge 35c. 5000 gal., 30c. 1000 gal. max., 25c. min.

MONTGOMERY, 1,789.
MUNICIPAL. Water and Light Commission.
Mayor, J. R. Appling.....Montgomery
Comr., Wm. Haas..... "
Sec., W. S. Harrison..... "
Supt., E. H. Algermissen..... "
Artesian well, one 4-in. 800 ft. deep; near center business section.
Boiler, tubular 50-hp. 100 lb. O'Brien 1900; mechanical stoking; pumps, 1-25,000 gal. vert. duplex Keystone 1907 belted to elec. motor, 15-hp. 220 v. D. C. Western 1909; elec. energy from Montgomery Ice & Elec. Co.; pumping to standpipe (1905) 110,000 gal.
Av. daily cons. 20,000 gal.; serv. con. 80; ord. pres. 35 to 43 lb., fire pres. same.
Rates; all meter, min. charge 40c. mo. 1000 gal., 40c. 1000 gal. max., 25c. min.

MOREHOUSE, 1,636.
Owned by HIMMELBERGER-HARRISON LUMBER COMPANY.
City Engr., J. E. Dunn.....Morehouse

MOUNT VERNON, 1,161.
MUNICIPAL.
Supt., A. C. Meyer.....Mt. Vernon

MOUNTAIN GROVE, 1,722.
MUNICIPAL.
Deep well, one.
Pumping to elev. tank (1913) 75,000 gal. iron; av. daily cons. 50,000 gal.

NEOSHO, 3,661.
MUNICIPAL.
Engr., A. C. Moore, Bartlett Bldg., Joplin, Mo.
Springs & impounding reservoirs, 500,000 gal.; 5 mi. from center distribution; no purification.
Boiler, 80-hp.; hand stoking; pumps, 3-350,000 gal., 700,000 gal., 450,000 gal. Worth. & F. M.; elec. motors, 50-hp. 2 ph.; pumping direct & to standpipe (1902) steel.
Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 120, hose con. 2½-in.; valves, 60 r. & l. h. thd.; meters, 100 Pittsburgh; av. daily cons. 350,000 gal.; serv. con. 950; ord. pres. 40 to 80 lb., fire pres. 80 to 100 lb.
Rates; meter, 25c. 1000 gal. max., 17.5c. min.

NEVADA, 7,176.
THE FORT, SCOTT & NEVADA LIGHT, HEAT, WATER & POWER COMPANY.
Pres., W. C. Gunn.....Ft. Scott, Kans.
V. Pres., W. R. Gunn..... " " "
Sec., W. J. Smith..... " " "
Treas., W. K. Calhoun..... " " "
Gen. Mgr. & Pur. Agt., J. H. Dunkel.Nevada
Engr. P'g. Sta., O. Cook..... "
Wells, three 10-in. 1000 ft. deep; reservoir, 1,000,000 gal.
Boilers, 5 hor. tubular 150 & 100-hp. 125 lb. Brownell; hand stoking; pumps, 1-1,000,000 gal. hor. L-D-G.; 1-1,000,000 gal. hor. Snow 1913; 1-500,000 gal. vert. duplex Ponoma 1914, belted to elec. motor, 1-650,000 gal. hor. centrifugal Worth. 1913, d. con. to elec. motor, two 20-hp. ea. 220 v. 3 ph. 60 cys. Westg. 1913; air compressors, 2 Ingersol-Rand steam driven; pumping direct.
Pipe, 22 mi. 2 to 12-in. c. i. & steel; hyd. 117, hose con. 2½-in. Pratt & Cady; valves, 62 r. h. opening; meters, 400; av. daily cons. 400,000 gal.; serv. con. 750; ord. pres. 50 lb., fire pres. 65 to 120 lb.
Rates; flat, $6.60 year, bath $2, closet $2; meter, min. charge 50c. mo., 30c. 1000 gal.

NEW FRANKLIN, 794.
MUNICIPAL.
Mayor, W. W. Carpenter....New Franklin
City Clerk, J. M. Settle..... " "
Supt., R. F. Bloomfield..... " "
Wells, 8-in. 240 ft. deep; near center distribution; no purification.
Pumps, 1-50,000 gal. vert. c. & f. wh. Luitweiler 1911; elec. motor, 4-hp. 110 v. Crocker-Wheeler, 1914; elec. energy from Home Elec. Co.; pumping to elev. tank (1911) 40,000 gal. iron, Chicago Bridge & Iron Works.
Pipe, 2 mi. 4 & 6-in. c. i.; hyd. 15; hose con. 2½-in.; meters, 58 Thomson; av. daily cons. 20,000 gal. 80%; serv. con. 74; ord. pres. 41 to 45 lb., fire pres. same.
Rates; meter, min. charge 75c. mo. 2500 gal., 25c. 1000 gal. max., 15c. min.

NEW MADRID, 1,882.
MUNICIPAL.
Mayor, D. R. Hunter.....Madrid
City Clerk, W. H. Copeland..... "
Supt. & Des. Engr., F. M. Buck..... "
Artesian wells, two.
Pumps driven by gasoline engines, two 10-hp. F. M.; pumping to standpipe (1905).
Pipe, 5 mi. 4 to 12-in.; hyd. 35; av. daily cons. 40,000 gal.; serv. con. 175; ord. pres. 52 to 58 lb., fire pres. same.

NORTH KANSAS CITY, 600.
NORTH KANSAS CITY WATER COM

PANY. Office, 730 Midland Bldg, Kansas City.
Pres., F. W. Pratt.....Kansas City
Sec. & Treas., H. J. Curran.... " "
Supt., J. W. McLendon..North " "
Selling Engineer..... " "
Engr., P'g. Sta.,
A. H. Johnson.....North Kansas City

Well, 8-in. 125 ft. deep; near center business section; settling basins, 2-85,000 gal. ea.; slow sand filters, 500,000 gal.; chemicals hypochlorite of lime and sulphate of alumina.

Pumps, 2-500,000 gal. ea. hor. centrifugal Platt 1913, 1-720,000 gal. hor. centrifugal Platt 1913 driven by elec. motors, two 30-hp., two 40-hp. ea. & one 15-hp. all 440 v. 3 ph. 25 cys. Westg. 1913; air compressor, 300 cu. ft Curtis 1913, driven by elec. motor; elec. energy from Kansas City Elec. Light Co.; pumping direct & to reservoir, 2,000,000 gal.

Pipe, 3 mi. 4 to 14-in. c. i.; hyd. 28, hose con. 3-in. Iowa, valves, 60 l. h. opening Crane; meters, 92 Worth. & Pittsburgh; av. daily cons. 95,000 gal. 90%; serv. con. 96; ord. pres. 62 to 80 lb., fire pres. 62 to 85 lb.

Rates; all meter, min. charge 50c. mo. 2000 gal., 50c. 1000 gal. max., 7c. min.

OREGON, 1,002.

MUNICIPAL LIGHT & WATER PLANT.
See Forest City.
Supt., M. R. Martin.....Oregon

Boiler, 90-hp. Star; steam engine, 90-hp. Allfree.

OSCEOLA, 1,114.

OSCEOLA LIGHT & WATER COMPANY.
Pres. & Treas., E. R. Hunt.....Osceola
V. Pres., E. C. Hunt..... "
Sec., A. V. Burton.....Kansas City
Supt., C. R. Vincent.....Osceola

Boiler, 60-hp.; steam engine, 47-hp. Buffalo.

PACIFIC, 1,418.

MUNICIPAL.
Supt., Ed. Holland.....Pacific

Meramec River; ½ mi. from center business section; impounding reservoir, 2-150,000 gal.; settling bsains, one.

Pump driven by oil engine, 30-hp. Remington 1912 & wtr. turbines, Rieves & Skinner; pumping direct.

Pipe, 4 mi. 4 to 8-in.; hyd. 23, hose con. 3-in.: meters, 60 Hersey & Pittsburgh; serv. con. 65.

PALMYRA, 2,168.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Mgr., Chas. W. Retti.....Palmyra

Boiler, 200-hp. Kewanee; steam engine, 150-hp. Hamilton.

PARKVILLE, 765.

Owned by PARK COLLEGE.
Pres., A. Q. Wolf.....Parkville
Sec. & Treas., F. A. Weghtman... "
Engr. P'g. Sta., R. Rogers..... "

Missouri River; settling & coagulating basins, 2-252,000 gal.

Boilers, 3 hor. tubular 125-hp. ea. 120 lb. Kewanee 1910, one hor. tubular 150-hp. 120 lb. Kewanee 1903; pumps, 1-1,000,000 gal. hor. duplex d. act. Advance 1905-1909, 1-2,000,000 gal. hor. comp. d. act. L-D-G. 1897, one triplex Deming 1908 belted to elec. motor, 1-1,080,000 gal. hor. centrifugal 1912, 1-1,000,000 gal. centrifugal 1913 d. con. to elec. motor; steam engine, 90-hp. Ide 1903, 160-hp. Ide 1914; elec. motor, 40-hp. Jenney 113, two 20-hp. ea. 220 v. D. C. Independent 1908 & 1912; gravity distribution.

PARIS, 1,474.

MUNICIPAL.
Mayor, C. J. Goltz.....Paris
Treas., C. B. Burnett..... "
City Clerk, James P. Moss..... "
Supt. & Engr. P'g. Sta., Geo. B. Blakey "
Cons. Engr., J. A. Bendure..... "

Salt River; ¾ mi. from center business section; no purification.

Boilers, 2 internally fired 100-hp. 100 lb. Springfield 1914; pumps, 1-420,000 gal. hor. comp. d. act. Worth. 1901; steam engines, 125-hp. Murray 1901; pumping to elev. tank (1901) 60,000 gal. steel Chicago Bridge & Iron Works.

Pipe, 5.5 mi. 2 to 8-in. c. i.; hyd. 19, hose con. 2½-in. Rensselaer; valves, 12 l. h. opening frame; meters, Buffalo; av. daily cons. 110,000 gal.; serv. con. 260; ord. pres. 47½ to 125 lb., fire pres.same.

Rates; flat, $1 mo. including bath and closet; meter, min. charge 50c. mo., 15c. 1000 gal.

ROLLA, 2,261.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.
Mayor, Edwin Long.....Rolla
Chmn. Comrs., J. U. Campbell..... "
Treas., S. E. Kerr..... "
Mgr. & Cont. Agt. & Engr. P'g. Sta.,
O. W. Chapin..... "

Boiler, 560-hp. O'Brien; steam engine, 360-hp. Brownell.

ST. CHARLES, 9,437.

MUNICIPAL.
Supt., A. H. Schone.....St. Charles
Engr. P'g. Sta., J. Morats..... " "

Missouri River; settling and coagulating basins, 2-1,000,000 gal.; chemicals, iron & basins, 2-1,000,000 gal.; chemicals, iron sulphate & lime.

Boilers, two 250-hp. Wickes; hand stoking; pumps, 1-4,000,000 gal., 1-2,000,000 gal., 2-2,250,000 gal. McGowan, 2 Snow & Worth.; pumping to reservoir, 2,500,000 gal. & standpipe (1912) concrete.

Pipe, 10.5 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. Ludlow, Rensselaer & Iowa; valves, 93 r. & l. h. thd. Ludlow; meters, none; av.daily cons. 1,750,000 gal.; serv. con. 1475; ord. pres. 80 lb., fire pres. 110 lb.

ST. GENEVIEVE, 1,967.

HOME LIGHT & WATER COMPANY.

Pres. & Sec., W. W. Wilder...St. Genevieve
V. Pres., Joseph Wilder..... " "
Treas., H. R. Rozier..... " "
Supt. & Pur. Agt.,
Guy E. Paxton..... " "

Wells, two 8-in. 75 ft. deep; near center business section.

Pump, 1-288,000 gal. comp. duplex Deane 1906, 1-360,000 gal. vert. triplex Deane 1906 driven to elec. motor; pumping to elev. tank (1906) 50,000 gal. iron & concrete.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 40, hose con. 2½-in. Nelson; valves, 16 l. h. opening.

Rates; meter, 25c. 1000 gal. max., 8c. min.

ST. JOSEPH, 77,403.

ST. JOSEPH WATER COMPANY. (Controlled by American Waterworks and Electric Co., 50 Broad St., New York, N. Y.)

Pres. & Supt.,C. H. Taylor.New York, N. Y.
V. Pres., G. E. Hoffmaster. " " " "
Sec., J. C. Adams..... " " " "
Treas., B. C. Hovis..... " " " "

Missouri River; settling & coagulating basins, 2-7,500,000 gal. & steel tank, 50 ft. in diam. 20 ft. deep; mechanical filters, 13,-900,000 gal.; chemical, hypochlorite of lime.

Boilers, two 221-hp. Heine, one 300-hp. B. & W., one 242-hp. Geary; hand stoking; pumps, 1-8,000,000 hor. tri. exp. Snow, 1-5,000,000 gal. hor. tri. exp. Epping-Carpenter, 1-8,000,000 gal. hor. tri. exp. Worth., 1-8,000,000 gal. rotary Root, 1-8,000,000 gal. centrifugal Sanrevee, 1-6,000,000 gal. hor. tri. exp. Epping-Carpenter, 1-6,000,000 gal. hor. c. & f. wh. Holly, 1-8,000,000 gal. c. & f. wh. Nordberg; pumping direct & to reservoir, 4-15,000,000 gal. & standpipe, steel.

Pipe, 134.86 mi. 4 to over 30-in. c. i.; hyd. 1090; meters, 2333 various; av. daily cons. 9,653,000 gal.; serv. con. 12,689; ord. pres. 140 lb.

ST. LOUIS, 687,029.

MUNICIPAL.

Comr., Edward E. Wall.....St. Louis
Asst. Comr., F. T. Cutts..... " "
Ch. Civil Engr., Gordon G. Black.. " "
Ch. Mech. Engr., Leonard A. Day. " "

Mississippi River; 12 mi. from center distribution; settling & coagulating basins, 9-235,000,000 gal.; mechanical filters, 160,-000,000 gal.; chemicals, liquid chlorine, hypochlorite of lime, sulphate of iron, lime & sulphate of alumina.

Boilers, 4 water-tube 410-hp. ea. 150 lb. Heine, 16 water-tube 300-hp. ea. 150 lb. O'Brien, 10 water-tube 350-hp. ea. Nat'l.; hand & mechanical stoking, Roney; pumps, 4-30,000,000 gal. ea. vert. comp. Allis-C. 1895–98, 2-40,000,000 gal. ea. hor. steam turbine driven De Laval 1912, 2-10,000,000 gal. ea. vert. tri. exp. Allis-C. 1898, 3-20,-000,000 gal. vert. tri. exp. Allis-C. 1903–5, 2-20,000,000 gal. ea. vert. tri. exp. Holly 1913, 2-16,000,000 gal. ea. vert. Fulton 1888–89, 2-1,500,000 gal. hor. comp. L-D-G 1909–10; pumping to reservoir, 50,000 gal., to standpipe (1886, 1889) brick & stone; elev. tank, 150,000 gal. steel.

Pipe, 947.6 mi. 4 to over 30-in. c. i.; hyd. 11,325 St. Louis Water Dept.; valves, 14, 347 l. h. thd. St. Louis Water Dept.; meters, 7571 mostly Nat'l., Hersey, Worth. & Thomson; av. daily cons. 84,600,000 gal.; serv. con. 112,162; ord. pres. 16 to 115 lb., fire pres. same.

Rates; flat, min. $2 year; meters, 15c. 100 ft. max., 6c. min.

SARCOXIE, 1,311.

MUNICIPAL.

Mayor, G. A. Boyd.....Sarcoxie
Comr., Lem Carnikel..... "
" S. H. Sofoon..... "
Supt., G. W. Humbard..... "

Well, 6-in. 305 ft. deep; near center business section; settling basins, 40,000 gal.

Pumps, 1-216,000 gal. hor. duplex F. M. 1908 d. con. to gasoline engine; pumping to elev. tank (1908) 30,000 gal. steel Des Moines Bridge & Iron Co.

Pipe, 4 mi. w. i.; hyd. 21, hose con. 2¼-in. Bourbon; valves, 6 r. h. opening Bourbon; meters, 81 Pittsburgh; serv. con. 121; ord. pres. 160 to 165 lb., fire pres. same.

Rates; flat, $1.50 quarter, bath $3, closet $3; meter, min. charge $1 quarter 3000 gal., 33c. 1000 gal.

SAVANNAH, 1,583.

MUNICIPAL.

Mayor, Ed. F. Smith.....Savannah
Comr., Fred Hartley..... "
" Henry Lauber..... "
" A. H. Frodsham..... "
Supt., G. E. Graham..... "

Well, one open 6 ft. diam. & one 8-in. tubular; reservoir, 60,000 gal.; no purification.

Pumps, 2-72,000 gal. ea. vert. single Luitweiller 1910 geared to elec. motor, 1-72,000 vert. single Deming 1914 geared to elec. motor, 1-720,000 gal. hor. centrifugal Platt 1910 d. con. to elec. motor 1-216,000 hor. centrifugal Platt 1910 d. con. to elec. motor; elec. motors two 5-hp. ea. & one 15-hp. 440v. 3 ph. 60 cys. Westg. 1910, one 40-hp. 440 v. 3 ph. 60 cys. Westg. 1910 & one 5-hp. 440 v. 3 ph. 60 cys. G. E. 1914; elec. energy from Savannah Electric Light & Power Co.; pumping to reservoir, 60,000 gal. & elev. tank (1907) 100,000 gal. steel Des Moines Bridge & Iron Co.

Pipe, 7 mi. 4 to 8-in. w. i.; hyd. 37, hose con. 3-in. Ludlow; valves, 17 l. h. opening Ludlow; meters, 92 Neptune, Buffalo, Thompson & Hersey; av. daily cons. 15,000 gal. 70%; serv. con. 102; ord. pres. 48 to 56 lb. fire pres. 75 to 100 lb.

Rates; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal. max., 35c. min.

SEDALIA, 17,823.

CITY WATER COMPANY OF SEDALIA.

Pres., H. C. Warren.....Sedalia
V. Pres., E. L. Street..... "
Sec & Treas. & Mgr., L. P. Andrews "

Impounding reservoir, 1-350,000,000 gal. & artesian wells, eight 8 to 12-in. 450 to 670 ft. deep; 3½ mi. from center distribution; settling and coagulating basins, two 50x60 ft. & 50x100 ft.; mechanical filters under construction; chemicals, hypochlorite of lime, iron sulphate & lime.

Boilers, 2 water-tube 170-hp. ea. Heine; hand stoking; pumps, 1-3,000,000 gal. L-D-G.,1-5,000,000 gal. Allis-C., 2-5,000,000 gal. ea. Alberger centrifugal; pumping direct, to reservoirs, 50,000,000 gal. & standpipes, 2 (1888) steel.

Pipe, 36 mi. 4 to 10-in. c. i.; hyd. 237, hose con. 2½-in. R. D. W., Bourbon & Rensselaer; valves, 275 r. h. thd. Ludlow & Chapman; meters, 1100 various; av. daily cons. 2,000,000 gal.; serv. con. 2400; ord. pres. 40 to 50 lb., fire pres. 70 to 100 lb.

Rates; flat, $6 year, bath $5, closet $5; meters, 30c. 1000 gal., 10c. min.

SENECA, 981.

SENECA ARTESIAN WATER COMPANY.
Supt., C. E. Norris.....Seneca

SLATER, 3,326.

MUNICIPAL.
Supt., L. E. Shepherd.....Slater
City Clerk, J. S. Stern..... "
Engr. P'g. Sta., J. H. Cooper..... "

Artesian well, 8-in. 650 ft. deep; near center business section.

Boilers, one hor. fire tube 100-hp. 100 lb. O'Brien, 2 tubular 125-hp. ea. 125 lb. Gem 1911; pumps, 1-72,000 gal. vert. simple Keystone 1911; pumping to reservoir, 2-165,000 gal. & elev. tank (1904) 76,000 gal. wood.

Pipe, 5.25 mi. 2 to 6-in. c. & w. i.; hyd. 33, hose con. 2½-in. Rensselaer; valves, 10 l. h. opening; meters, 150 Thomson, Neptune & American; av. daily cons. 50,000 gal.; serv. con. 160; ord. pres. 23 lb. fire pres. 23 to 60 lb.

Rates; meter, min. charge 50c. mo. 1000 gal.

SOUTH GORIN, 746.

MUNICIPAL. For fire protection only.
Mayor, J. A. Gulis.....South Gorin
Village Clerk, H. F. Kiaus..... " "

Well, 8 ft. diam. 40 ft. deep; in center business section; pumps driven by gasoline engine, 1900; hyd. 5.

SPICKARD, 638.

MUNICIPAL.
Mayor, L. F. Ashbrook.....Spickard
Villae Clerk, H. Montgomery..... "

Grnad River; ¼ mi. from center business section; no purification.

Pump, centrifugal driven by gasoline engine, 12-hp. Milwark; pumping to standpipe.

Hyd. 6, hose con. 2½-in. Anderson; valves, 4 r. h. opening; meters, 20.

SPRINGFIELD, 35,201.

SPRINGFIELD CITY WATER COMPANY.
Pres., Geo. F. West.....Portland, Maine
V. Pres., John D. Filley.....St. Louis, Mo.
Sec. Gen. Mgr. & Pur. Agt.
R. L. Pate.....Springfield
Treas., H. B. McDaniel..... "
Engr. P'g. Sta., M. S. Fickett... "
Chemist, James M. Caird.....Troy, N. Y.

Springs & wells, four 10 & 12-in. 1000 to 1400 ft. deep; 5 mi. from center business section; reservoir, 125,000,000 gal.; settling & coagulating basins, 2-750,000 gal.; mechanical filters, 6,500,000 gal. N. Y. C. Jewell; chemical, sulphate of alumina & hypochlorite of lime.

Boilers, 4 hor. tubular 150-hp. 150 lb. Brownell 1907 & 1914, 2 hor. tubular 125-hp. 125 lb. Brownell 1914, one hor. tubular 80-hp. 125 lb. Brownell 1910; hand stoking; pumps, 1-6,000,000 gal. hor. cross comp. c. & f. wh. L-D-G. 1910, 1-4,000,000 gal. hor. tri. exp. d. act. Deane 1894, 1-4,500,000 hor. comp. d. act. Deane 1889, 2-2,000,000 hor. comp. d. act. Deane 1908, 1-1,000,000 hor. Comp. d. act. Deane 1914, 1-1,000,000 simple d. act. Deane 1914, 1-6,000,000 hor. centrifugal 1910, 1-4,000,000 hor. centrifugal 1910; pumping direct and and to standpipe, 755,000 gal.

Pipe, 112 mi. 2 to 24-in. c. i.; hyd. 402, hose con. 2½-in. R. D. W.; valves, 600 r. h. opening various; meters, 1700 National & Pittsburgh; av. daily cons. 4,250,000 gal.; serv. con. 8695; ord. pres. 40 to 75 lb.

Rates; meter, min. charge $8.00 year 32,-000 gal., 25c. 1000 gal. max., 6c. min.

STRANBERRY, 2,121.

MUNICIPAL.
Supt., Perry Allen.....Stranberry

SWEET SPRINGS, 1,122.

MUNICIPAL.
Mayor, N. M. Cooper.....Sweet Springs
Supt., R. H. Shackelford.... " "

TARKIO, 1,966.

TARKIO ELECTRIC & WATER CO.
Pres., Treas. & Gen. Mgr.,
W. N. Rankin.....Tarkio
V. Pres., J. A. Rankin..... "
Sec., W. F. Marshall..... "

Artesian well; boilers, 2 150-hp. 150 lb. Murray; hand stoking.

TRENTON, 5,656.

MUNICIPAL.
Supt., John B. Haney.....Trenton
Mgr., A. O. Ginn..... "
Supt., John B. Haney..... "

Grand River; one mi. from center distribution; chemical, copper, sulphate.

Boilers, 2 hor. tubular 150-hp. Murray; hand stoking; pumps, 2-1,000,000 gal. Worth.; oil engines, 50-hp. F. M.; elec. motors, 50 & 75-hp. 60 cys. G. E.; elec. energy from Trenton Gas & Electric Co.; pumping direct, to reservoir, 65,000,000 gal. & standpipe (1887) iron.

Pipe, 15.5 mi. 4 to 12-in. c. i. & steel; hyd. 100, hose con. 2½-in. mostly Nelson; valves. 32 l. h. thd. various; meters, 425 mostly

Pittsburgh; av. daily cons. 750,000 gal.; serv. con. 825; ord. pres. 35 to 55 lb., fire pres. 35 to 126 lb.

Rates; meters, 30c. 100 cu. ft. max., 6c. min.

UNIONVILLE, 2,300.

MUNICIPAL LIGHT & WATERWORKS.

Comr., Geo. Tate.....Unionville
" T. O. Wentworth..... "
" Matt Fowler..... "
City Clerk, F. O. Elson..... "
Supt. & Engr. P'g. Sta.,
M. Flynn..... "

Impounding reservoir; 1.5 mi. from center business section; settling basins, 2-800,000 gal.

Boilers, two 60-hp. ea. 80 lb. Murray 1887; hand stoking; pumps, 2 hor. simple d. act. Gardner 1894, 1-144,000 gal. hor. duplex Deane 1914, belted to elec. motor, 7.5-hp. 110 v. single ph. cys. Century 1912; pumping direct.

Pipe, 10 mi. 3 to 8-in.; hyd. 32, hose con. 2½-in; valves, 8; ord. pres. 25 to 40 lb., fire pres. 80 to 110 lb.

Rates; flat, 50c. mo.; meter, min. charge 50c. mo. 1000 gal.

VALLEY PARK, 1,200.

VALLEY PARK WATER CO.

V. Pres. & Treas.,
D. K. Albricht.....Valley Park

VERONA, 446.

Supplied by Aurora.

WARRENTON, 795.

MUNICIPAL.

Pres. & Comr., Henry H. Reese. Warrenton
Mayor, H. H. Buschmann..... "
Sec., S. F. Roberson..... "
Supt., H. C. Boettger..... "

Artesian well; near center business section; no purification.

Pump, 1-100,000 gal. hor. d. act. steam Gardner 1910, one Luitweiler 1912, driven by elec. motor, 7.5, 220 v. 60 cys. 1912; pumping to elev. tank (1913) 45,000 gal. steel.

Pipe, 3 mi. 2½ & 4-in. c. & g. i.; hyd. 20, hose con. 2½-in.; meters 30; av. daily cons. 10,000 gal. ord. pres. 60 to 90 lb., fire pres. same.

Rates; meter, min. charge 75c. mo., 35c. 1000 gal.

WASHINGTON, 3,670.

WASHINGTON WATER & LIGHT COMPANY.

Supt., Henry Mowwe.....Washington

WEBB CITY, 1,817.

MISSOURI PUBLIC UTILITIES COMPANY.

Office, Railway Exchange Bldg., St. Louis. For officers see Cape Girardeau.

Supt., C. H. Jaccard.....Webb City

Wells, six 4 to 10-in. 900 ft. deep; 2 mi. from center distribution.

Boilers, 2 marine 125-hp. Freeman, one tubular 80-hp. Matthews; pumps, 1-1,500,000 gal. Epping-Carpenter, 2-1,000,000 gal. ea. Hughes, 6 ft. deep wells Keystone; elec. motors, one 50-hp. & five 25-hp. ea. 3 ph. 25 cys. Westg.; pumping to standpipe (1890) iron & to reservoir, 1,400,000 gal.

Pipe, 31 mi. 4 to 12-in. c. i.; hyd. 226, hose con. 2½-in. Bourbon, Nat'l. & Pratt-Cady; valves, 97 r. h. thd.; meters, 1651 Thomson & Worth.; av. daily cons. 700,000 gal.; serv. con. 2237; ord. pres. 50 lb., fire pres. 100 lb.

Rates; meter, 25c. 100 cu. ft. max., 8½c. min.

WEBSTER GROVES, 7,080.

Supplied by West St. Louis Water & Light Co. See St. Louis.

WELLSVILLE, 1,194.

WELLSVILLE ELECTRIC LIGHT, POWER & WATER COMPANY

Pres., T. H. Early.....Centralia
V. Pres., J. P. Mitchell..... "
Sec.-Treas. & Mgr., C. Gillan....Wellsville
Engr. P'g. Sta., R. V. McFadden "

Boiler, 150-hp. O'Brien; steam engine, 150-hp. St. Louis.

WEST PLAINS, 2,914.

MUNICIPAL WATER & LIGHT COMMISSION.

Comr., C. F. Funkhouser.....West Plains
" Lum Allen..... " "
Engr. P'g. Sta., W. P. Britain.. " "

Wells, two 10-in. 500 & 1305 ft. deep; ¼ mi. from center business section; reservoir, 2-150,000 gal. no. purification.

Pump, 1-140,000 gal. Keystone 1914 belted to elec. motor, 1-70,000 gal. Keystone 1913 belted to elec. motor, two 15-hp. ea. 220 v. 3 ph. 60 cys. G. E. Westg. 1913-14; elec. energy from Manouth Springs Power Co.; pumping to standpipe (1900) 65,000 gal.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 28, hose con. 2½-in. Rensselaer; valves, 8 l. h. opening Clow; meters, 169 various; av. daily cons. 60,000 gal. 60%; serv. con. 231; ord. pres. 65 to 85 lb., fire pres. 65 to 150 lb.

Rates; meter, min. charge 75c. mo. 1000 gal.; 75c. 1000 gal. max., 15c. min.

WINDSOR, 2,241.

MUNICIPAL.

City Clerk, J. H. Hart.....Windsor
Supt. & Engr. P'g. Sta.,
Walter Shrum..... "
Cons. Engr., J. P. Davis..... "

Wells, 2 open 10 & 18 ft. diam. 32 ft. deep; ¼ mi. from center business section; no purification.

Pumps, 2-432,000 gal. ea. vert. triplex Deane 1911 d. con. to oil engine, 32-hp. Fairbanks one 1911; pumping to elev. tank (1911) 55,000 gal. steel Chicago Bridge & Iron Works.

Pipe, 7.5 mi. 4 to 8-in. c. i.; hyd. 60, hose con. 2½-in. Ludlow; valves, 50 l. h. opening; meters, 200 Pittsburgh; av. daily cons. 20,000 gal.; serv. con. 200; ord. pres. 50 to 55 lb., fire pres. 50 to 130 lb.

Rates; meter, min. charge $2.25 quarter 65,00 gal. 35c. 1000 gal. max., 25c. min.

MONTANA

ANACONDA, 10,134.
ANACONDA COPPER MINING CO.
(Waterworks Dept.)
Pres., B. B. Thayer
42 Broadway, New York
V. Pres., C. F. Kelley.....Anaconda
Supt., H. M. Johnson..... "

Lake Hearst, 5½ mi. & Silver Lake 15 mi. from center distribution; reservoir, 300,000 gal.; no purification.

Gravity distribution from reservoir, 2-81,500,000 gal.

Pipe, 21.5 mi. 4 to 12-in.; hyd. 87, hose con. 2½-in. Ludlow; valves, 283 Ludlow; meters, none; av. daily cons. 3,750,000 gal.; serv. con. 2068; ord. pres. 65 to 90 lb., fire pres. same.

BELGRADE, 651.
BELGRADE WATER CO.
Pres., Ben Hager.....Belgrade
Sec. & Treas., Wm. Fitzstephens... "
Cons. Engr., Geo. Melten..... "

Spring Hill Creek; 8 mi. from center distribution; slow sand filters under construction.

Gravity distribution from reservoirs, 243,000 gal.

Pipe, 4 mi. 4 to 12-in. wood; hyd. 18, hose con. 2½-in. Rensselaer; valves, 42 r. h. thd.; meters, 2 Buffalo & Neptune; av. daily cons. 100,000 gal.; serv. con. 192; ord. pres. 50 to 100 lb., fire pres. same.

Rates; meter, 5c. 100 gal. max., 2c. min.

BELT, 1,001.
MUNICIPAL.
Comr., E. J. Blomquist.....Belt
" Henry Morrow..... "
Pur. Agt., D. Slogan..... "
Supt., John Somerville..... "

Well, 13 x 26 ft. 40 ft. deep; ¾ mi. from center distribution; no purification.

Pumps, 1-504,000 gal. Jeanesville; energy from Great Falls Power Co.; elec. motor, 3 ph. 60 cys. Westg.; pumping to elev. tank, 50,000 gal. wood.

Pipe, one mi. 6-in. w. i.; hyd. 18. hose con., 2½-in. Nott; valves, 11 r. h. thd. Crane; meters, 7 Neptune; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 95 to 115 lb., fire pres. 135 to 145 lb.

BILLINGS, 10,031.
MONTANA WATER CO.
Pres., R. W. Rowley.....Billings
Sec. & Treas., J. E. Roche..... "

BOZEMAN, 5,107.
MUNICIPAL.
Supt., E. T. Rich.....Bozeman
City Engr., Carl C. Widener..... "

Lyman Creek; 4½ mi. from center distribution; settling basins, 270,000 gal.

Gravity distribution from reservoir, 6,-000,000 gal.

Pipe, 25 mi. 4 to 16-in. c. i. & wood; hyd. 115, hose con. 2½-in.; valves, 106 r. h. thd.; meters, none; av. daily cons. 700,000 gal.; serv. con. 1550; ord. pres. 45 to 110 lb., fire pres. same.

Rates; meter, 20c. 1000 gal. max., 15c. min.

BUTTE, 49,169.
BUTTE WATER COMPANY. Supplies Walkerville.
Pres., A. H. Melin.42 Broadway, New York
V. Pres., Eugene Carroll.....Butte
Sec. & Treas., H. S. Meehan,
42 Broadway, New York
Gen. Mgr. & Pur. Agt.,
Eugene Carroll.....Butte
Supt., R. Probst..... "
Des. Engr., James H. Kyd..... "
Engr. P'g. Sta., C. H. Woods.....Divide

Impounding reservoir on mountain stream and Big Hole River, 5-715,000,000 gal.; 6, 13 & 29 mi. from center business section.

Boilers, 4 water-tube, 300-hp. ea. 150 lb. Sterling 1900, 2 tubular 8-hp. ea. 125 lb. Tuttle 1900; hand & mech. stoking, 2 American; pump, 1-4,000,000 gal. hor. triple expansion c. and f. wh. Nordberg 1907, 1-3,000,000 gal. hor. triple expansion d. act. Worth. 1901, 1-5,000,000 gal. triplex Nordberg 1900, 2-2,000,000 gal. ea. duplex Nordberg 1906–1909 rope driven from elec. motors, 800-hp. 2080 v. 3 ph. 60 cys. G. E. 1912, 800-hp. 750 v. 3 ph. 60 cys. G. E. 1910, 2 150-hp. ea. 2200 v. 3 ph. 60 cys Westg. & G. E. 1906 & 1910; elec. energy purchased from the Montana Power Co.; pumping to reservoir, 4-18,000,000 gal.

Pipe, 167 miles, 2 to 26-in. steel and wood; hyd. 688, hose con. 2½-in. Ludlow; valves, l. h. opening Ludlow; meters, 596 various; av. daily cons. 10,000,000 gal.; serv. con. 9764; ord. pres. 50 to 160 lb., fire pres. same.

Rates; flat, $1.50 mo., bath 25c., closet 25c.; meters, min. charge $1 mo., 37.5c. 100 cu. ft. max., 13c. min.

COLUMBUS, 521.
MUNICIPAL.
Supt., C. W. Doyle.....Columbus

Yellowstone River; near center distribution; slow sand filter, 70,000 gal.; chemicals, none.

Pumps, 1-3600 gal. Morris, 1-7500 gal. Morris, 1-4000 gal. Morris driven by elec. motors, 220 v. 3 ph. 60 cys. Westg. & G. E.; pumping to reservoir, 12,600 gal.

Pipe, 8 mi. 4 to 12-in. c. i. & wood; hyd. 23, hose con. 2½-in. Eddy; valves, 14 r. h. thd. Crane; meters, none; av. daily cons. 31,000 gal.; serv. con. 174; ord. pres. 85 lb., fire pres. 90 lb.

DEER LODGE, 2,570.
CITIZENS WATER CO.
Pres., N. J. Bielenberg..... DeerLodge
V. Pres., Willard Bennett..... " "
Treas., Wm. Coleman..... " "
Sec., Supt. & Engr. P'g. Sta.,
Jos. L. Coleman..... " "

Mountain streams & springs; 4 to 5 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 2-360,000 gal. ea.

Pipe, 10 mi. 4 to 18-in. c. i. & wood; hyd. 36, hose con. 2½-in. Ludlow; serv. con. 550; ord. pres. 70 to 95 lb., fire pres. same.

FORSYTHE, 1,398.

MUNICIPAL.

City Engr., C. D. Taber.....Forsythe

FORT BENTON, 1,503.

MUNICIPAL.

Supt., F. E. Stranahan.....Fort Benton

Missouri River & wells; one 20 ft. in diam. 100 ft. deep; & 10 tubular 30 ft. deep; ½ mi. from center distribution; no purification.

Pump driven by elec. motor; pumping to standpipe (1913) steel.

Hyd. 40, hose con. 4-in.; av. daily cons. 66,000 gal.; serv. con. 300; ord. pres. 60 lb., fire pres. same.

GLASGOW, 1,158.

MUNICIPAL ELECTRIC LIGHT & WATER WORKS.

Mayor, R. H. Friedl.....Glasgow
City Treas., P. L. Wood..... "
Supt. & Engr. P'g. Sta.,
A. J. Melvin..... "

Boilers, 250 hp. Heine; steam engine, 125-hp. Erie.

GLENDIVE, 2,428.

MUNICIPAL.

City Engr., E. S. Baer.....Glendive

GREAT FALLS, 13,948.

MUNICIPAL.

Comr., Fred Piper.....Great Falls
" George Asselstine..... " "
" Wm. Collins..... " "
City Clerk, W. H. Harrison..... " "
City Engr., M. L. Morris..... " "
Engr. P'g. Sta., Paul Rhone..... " "

Missouri River; one mi. from center business section; no purification.

Pumps, 1-5,000,000 gal. c. & f. wh. Holly 1897, 1-2,000,000 gal. hor. centrifugal Worth. 1910 d. con. to elec. motor, 4 150-hp. ea. 2200 v. 3 ph. 60 cys. G. E. 1910, 1-4,000,000 gal. hor. centrifugal Worth. 1915 d. con. to elec. motor, 300-hp. 2200 v. 3 ph. 60 cys. G. E. 1915; elec. energy from Montana Power Co.; pumping direct & to standpipe (1903) 560,000 gal.

Pipe, 44.4 mi. 4 to 16-in. c. i. & steel; hyd. 397, hose con. 2½-in. Ludlow; valves, 343 l. h. opening Crane & Ludlow; meters, 206 Neptune, Pittsburgh & National; av. daily cons. 3,600,000 gal.; serv. con. 2700; ord. pres. 85 to 100 lb., fire pres. same.

Rates; flat, 80c. mo., bath 30c., closet 30c.; meter, min. charge $1 mo., 23c. 100 cu. ft. max., 11c. min.

HAMILTON., 2,240.

MISSOULA LIGHT & WATER CO.

Pres., W. H. Clark.....New York, N.Y.
V. Pres., W. M. Bickford.....Missoula
Sec. & Treas., J. L. Ward..... "
Gen. Mgr. & Pur. Agt.,
G. H. Christensen..... "

Skalkaho Creek; 6 mi. from center business section; impounding reservoir, 7,000,000 gal.; no purification.

Gravity distribution; pipe, 16 mi. 6 to 10-in. wood, c. i. & kalamein; hyd. 63, hose con. 2½-in. Ludlow; valves, 54 l. h. opening Ludlow; meters, 15 Neptune & Pittsburgh; ord. pres. 60 to 80 lb., fire pres. same.

Rates; flat, $1.50 mo., bath & closet $2; meter, min. charge $1.50 mo., 26c. 100 cu. ft. max., 11c. min.

HARLOWTON, 7,770.

MUNICIPAL.

Supt., F. Jenizen.....Harlowton

HAVRE, 3,624.

MUNICIPAL.

City Engr., S. L. Hawley.....Havre

HELENA, 12,515.

MUNICIPAL.

Mayor, Lincoln Working.....Helena
Chmn. Comrs., C. E. Kretlaw..... "
City Engr., J. D. McLeod..... "
Cashier, Martin Doty..... "

Impounding reservoir, fed by springs & small streams, 650,000,000 gal.; 10 to 20 mi. from center distribution; settling basin, 6,-000,000 gal.; chemicals, none.

Gravity distribution from reservoir, 5,-000,000 gal.

Pipe, 45 mi. 4 to 12-in. c. i. & kalamein; hyd. 299, hose con. 3-in. various; valves, 350 r. & l. h. various; meters, 232 various; serv. con. 3200; ord. pres. 90 to 200 lb., fire pres. same.

Rates; flat, $3 quarter, bath $1, closet $1; meters, 40c. 1000 gal. max., 15c. min.

KALISPELL, 5,549.

MUNICIPAL.

Mayor, Robt. Pailune.....Kalispell
Chmn. Comrs., Ward Buckinghim. "
Cashier, C. K. Dickey..... "
Supt., W. H. Lawrence..... "

Well near Still Water River, 25 ft. in diam. 8 ft. below river level; 1½-mi. from center distribution; no purification.

Boilers, 2 80-hp. Ball; pump, 1-6,000,000 gal. centrifugal Worth. d. con. to elec. motor, 400-hp., 1-1,500,000 gal. centrifugal Lawrence d. con. to elec. motor, 100-hp., 2-1,500,000 gal. centrifugal Lawrence d. con. to elec. motor, 50-hp., 2-1,000,000 gal. steam Deane; pumping direct & to reservoir, 1,600,000 gal. & standpipe (1892) steel.

Pipe, 22.75 mi. 4 to 16-in. c. i., wood & steel; hyd. 228, hose con. 2½-in. Ludlow; valves, 1570 l. h. opening; meters, 50 Pittsburgh & Neptune; av. daily cons. 1,650,000 gal.; serv. con. 1150; ord. pres. 48 to 58 lb., fire pres. 75 to 95 lb.

Rates; flat, $1.25 mo., bath 50c., closet $1; meter, 50c. 1000 gal. max., 7.5 min.

LEWISTON, 2,992.

MUNICIPAL.

Mayor, W. D. Symnes.....Lewiston
Chmn. Comrs., P. J. Wildman.... "
Comr., Clifford Miller..... "
Sec., Edward Sutter..... "
Supt., Geo. Waltz..... "
City Engr., A. D. Birkland..... "
Chemist, W. M. Cobleigh.....Bozeman

Big Spring Creek; 6 mi. from center business section; no purification.

Pump, 1-1,000,000 gal. vert. triplex Goulds 1904 chain driven from elec. motor, 50-hp. 3 ph. Westg. 1904; pumping direct & gravity dristibution from reservoir, 360,000 gal.

Pipe, 22 mi. 4 to 16-in. c. i. & steel; hyd. 139, hose con. 2½-in.; valves, 236 r. & l. h. opening Chapman & Eddy; meters, 117 Neptune; av. daily cons. 960,000 gal.; serv. con. 1139; ord. pres. 65 to 110 lb.

Rates; flat, $1.40 mo., bath 40c., closet 35c.; meter, 50c. 100 gal. max., 15c. min.

LIBBY, 630.

LIBBY WATERWORKS, ELECTRIC LIGHT & POWER CO.

Mgr., H. E. Robinson.....Libby

Impounding reservoir, fed by mountain streams & springs, 2,000,000 gal.; 2 mi. from center distribution; no purification.

Gravity distribution; pipe, 3.5 mi. 4 to 12-in. c. i.; hyd. 19, hose con. 2½-in. Crane; meters, none; serv. con. 190; ord. pres. 45 to 60 lb., fire pres. 45 to 130 lb.

LIVINGSTON, 5,659.

LIVINGSTON WATER CO.

Supt., E. C. Rlss.....Livingston

Yellowstone River; ¼ mi. from center distribution; infiltration wells, 4; chemicals, none.

Boilers, 2 hor. 100-hp. Atlas; hand stoking; pumps, 4-7,500,000 gal. Barr, Deane, Morris & Worth.; elec. motors, 100 & 250-hp. 2300 v. 3 ph. 60 cys. G. E. & Westg.; elec. energy from Mountain Power Co.; pumping direct & to reservoir, 350,000 gal.

Pipe, 12.2 mi. 4 to 12-in. c. i.; hyd. 111, hose con. 2½-in. Ludlow & Holyoke; valves, 134 r. h. thd. Ludlow; meters, 70 National, Hersey, Neptune & Worth.; av. daily cons. 1,000,000 gal.; serv. con. 1260; ord. pres. 80 to 90 lb., fire pres. 115 to 130 lb.

Rates; flat, $10 year; meter, 40c. 1000 gal. max., 10c. min.

MILES CITY, 4,697.

MUNICIPAL WATER & LIGHT COMMISSION.

Mayor, C. H. Mott.....Miles City
City Clerk, J. E. Farnum..... " "
Supt., V. T. Pruett..... " "
Cons. Engrs.,
Burns & McDonnell.....Kansas City, Mo.

Yellowstone River; one mi. from center business section; coagulating basins, 2-450,000 gal., mech. filters, 2,000,000 gal., filtering area 966 sq. ft. Green; chemical, sulphate of alumina.

Pumps, 2-2,000,000 gal. ea. hor. centrifugal Platt 1911 d. con. to elec. motors, 2 30-hp. 2200 v. 3 ph. 60 cys. Westg. 1911, 2-2,000,000 gal. ea. hor. centrifugal Platt 1911 d. con. to elec. motors, 2 100-hp. ea. 2200 v. 3 ph. 60 cys. Westg. 1911; elec. energy from Municipal Light Plant; pumping to elev. tank (1911) 200,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 18 mi. 4 to 14-in. c. i.; hyd. 102, hose con. 2½-in. Ludlow & South Park; valves, 735 l. h. opening Ludlow & South Park; meters, 900 Pittsburgh , National & Neptune; av. daily cons. 450,000 gal. 75%; serv. con. 900; ord. pres. 50 to 55 lb., fire pres. 125 to 135 lb.

Rates; meter, min. charge $1 mo. 4000 gal., 30c. 1000 gal. max., 7.5c. min.

MISSOULA, 12,869.

MISSOULA LIGHT & WATER CO. See also Hamilton.

Pres., W. A. Clark
20 Exchange Place, New York, N. Y.
V. Pres., W. M. Bickford.....Missoula
Sec. & Treas., J. L. Ward..... "
Gen. Mgr. & Pur. Agt.,
C. H. Christensen..... "

Rattlesnake River; 4 mi. from center business section; reservoir, 1-1,500,000 gal.; no purification.

Gravity distribution from reservoirs, 2-3,000,000 gal.; pipe, 62 mi. 1 to 24-in. c. i. & wood; hyd. 154, hose con. 2½-in.; meters, 155; av. daily cons. 8,000,000 gal.; serv. con. 3150; ord. pres. 60 to 65 lb., fire pres. 90 to 100 lb.

Rates; meter, min. charge $2 mo. 800 cu. ft., 26c. 100 cu. ft. max., 11c. min.

NEIHART, 268.

NEIHART WATER CO. Office, Great Falls.

Pres., A. Nathan.....Neihart
Sec. & Treas., W. F. O'Leary....Great Falls
Supt., Tony Fuller.....Neihart

Springs, 4.5 mi. center business section; reservoir, 1000 gal.

Gravity distribution; pipe, 2 mi. 12-in. c. i.; hyd. 25, hose con. 4-in.; valves, 4 r. h. opening; serv. con. 50; ord. pres. 130 to 140 lb., fire pres. same.

Rates; flat, $1.25 mo., bath 50c., closet 50c.; same.

PHILIPSBURG, 1,109.

MUNICIPAL.

Chmn. Comrs. & Supt.,
J. J. Trawsman.....Philipsburg
Comr., G. Lindstadt..... "
" Allen McDonald..... "

Springs & South Boulder Creek; 6 mi. from center distribution; no purification.

Gravity distribution from tank, 200,000 gal. wood.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in.; valves, 30 r. h. thd.; av. daily cons. 15,000 gal.; serv. con. 350; ord. pres. 10 to 90 lb., fire pres. same.

Rates; flat, $1.50 mo.

PLAINS, 481.

PLAINS LIGHT & WATER CO.

Pres., F. M. Shields.....Plains
Supt. & Mgr., A. Anderson..... "

Springs; gravity distribution from reservoir, 25,000 gal.; hyd. 10, hose con. 2½-in.; valves, 10 l. h. thd.; av. daily cons. 150,000 gal.; serv. con. 230; ord. pres. 65 lb., fire pres. same.

POLSON, 700.

BITTER ROOT MOUNTAIN WATER CO.

Mgr., A. M. Hubbard.....Polson

PONY, 369.

MORRIS STATE BANK.

Pres., Mary B. Elling.....Pony
V. Pres., H. J. Schreiner..... "
Cashier & Supt., F. G. Smith..... "

Mountain spring; reservoir, 20,000 gal.; serv. con. 8; ord. pres. 200 lb.

RED LODGE, 4,860.

MUNICIPAL.

Chmn. Comrs., Frank McCleary, Red Lodge
Comr., J. M. Dunbar..... " "
" John Flaherty..... " "
City Clerk, E. B. Provinse..... " "
Sup., M. P. Normile..... " "

Rock River; 3 mi. from center of business section.

Gravity distribution; pipe, 7 mi. 4 to 8-in. c. i.; hyd. 42, hose con. 2½-in. St. Paul; valves, 60 l. h. opening; meters, none; serv. con. 700; ord. pres. 90 to 120 lb.

Rates; flat, $1.50 quarter, bath 75c., closet 75c.

ROUNDUP, 1,513.

MUNICIPAL.

Supt., C. P. Tillman.....Roundup
Engr. P'g. Sta., W. Jones.....Roundup

Wells, 8 x 16 ft. deep; ½ mi. from center of business section; no purification.

Boiler, 150-hp. 125 lb. Titusville 1909; pumps, 1-504,000 gal. hor. duplex d. act. F. M. 1909; pumping to reservoir, 145,000 gal.

Pipe, 5 mi. 1 to 8-in. c. i. & wood; hyd. 16, hose con. 2 & 2½-in.; valves, 28 r. h. opening Crane; meters, one Neptune; av. daily cons. 126,000 gal.; serv. con. 250; ord. pres. 75 to 78 lb., fire pres. same.

Rates; flat, $2.50 month, bath $1, closet 75c.; meters, min. charge $2 mo., 50c. 1000 gal.

SUPERIOR, 4,250.

SUPERIOR WATER WORKS. (Privately owned.)

Pres., H. Schoenfeld.....Superior
Sec., Mrs. H. Schoenfeld..... "

Springs & reservoirs, 2-60,000 gal.; pumps driven by water turbines, 25 & 50-hp. Pelton.

Pipe, 1.5 mi. 4-in. w. i.; hyd. 3, hose con. 2-in.; ord. pres. 105 lb.

WALKERVILLE, 2,491.

Supplied by Butte Water Company. (See Butte.)

WHITE SULPHUR SPRINGS, 500.

MUNICIPAL.

Supt., R. S. Giles..White Sulphur Springs

Willow Creek; 5 mi. from center distribution; no purification.

Gravity distribution from reservoir, 16 x 20 x 8 ft.; hyd. 23, hose con. 3-in.; valves, 14 r. & l. h. thd. National & Ludlow; meter, none; serv. con. 125; ord. pres. 65 to 80 lb., fire pres. 65 to 130 lb.

NEBRASKA

ALBION, 1,584.
MUNICIPAL.
Mayor, D. J. Poynter.....Albion
City Clerk, Geo. Browder..... "
Comr., E. Swails..... "
Wells, 8 4 & 6-in. 100 ft. deep; at center distribution; no purification.
Pumps, 1-173,000 gal. triplex Goulds 1910 belted to oil engine, 40-hp. Mietz & Weiss 1911; oil engine, Blaisdell 1910; elec. motors, 35-hp. 220 v. 3 ph. 60 cys. Western 1911; pumping to elev. tank (1900) 30.000 gal. steel.
Pipe, 4.75 mi. 4 & 6-in. c. i.; hyd. 42, hose con. 2-in. Ludlow & Kupferle; valves, 17 r. & 1 h. opening; meters, 333 Neptune & Pittsburg; av. daily cons. 119,000 gal.; serv. con. 333; ord. pres. 65 to 75 lb., fire pres. same.
Rates; all meter, min. charge $2 year 5000 gal., 20c. 1000 gal. max., 15c. min.

ALLIANCE, 3,105.
MUNICIPAL.
Supt., J. E. Hughes Alliance
Wells, 4 8-in. 160 ft. deep; ¾ mi. from center distribution; no purification.
Pumps, 4 driven by elec. motors, 2200 v. 3 ph. 60 cys. G. E. & Westg.; elec. energy from Municipal Light Plant; pumping to standpipe (1903) iron.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 50 Fairbanks & Tamaqua; meters, 650 National & Neptune; av. daily cons. 200,000 gal.; serv. con. 650; ord. pres. 60 lb., fire pres. same.
Rates; all meter, 18c. 1000 gal. max., 10c. min.

ALMA, 1,066.
MUNICIPAL.
Supt. & Engr. P'g. Sta., C. Feese....Alma
Pumps, 1-504,000 gal. F. M. driven by gasoline engine, 25-hp. Olds; pumping to elev. tank (1907) 40,000 gal.
Hyd. 11, hose con. 3-in.; meters, 203 Pittsburgh; av. daily cons. 73,000 gal.; serv. con. 203; ord. pres. 54 lb., fire pres. 150 lb.
Rates; meter, 20c. 1000 gal.

ARAPAHOE, 901.
MUNICIPAL.
Mayor, Chas. A. Patterson.....Arapahoe
Comr., J. W. Evans.... "
" C. J. Krapf..... "
" A. Benjamin..... "
Supt. & Engr. P'g. Sta.,
E. C. Shock..... "
Well, 2 10-in. 67 ft. deep; no purification.
Pumps, 1-144,000 gal. Deane, 1-216,000 gal. Luitweiler; gasoline engine, 115-hp. Buckeye; oil engines, 55-hp. Weber; elec. motors, 2 37 & 80 kw. 2300 v. 3 ph. 60 cys. G. E. & Western; pumping to elev. tank, 50,000 gal steel.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 32, hose con. 2½-in. Eddy; valves, 30 l. h. thd. Eddy; meters, 80 Pittsburgh & Buffalo; av. daily cons. 30,000 gal.; serv. con. 110; ord. pres. 44 to 54 lb., fire pres, same.
Rates; flat, 60c. mo.; meters, 18c. 1000 gal.

ASHLAND, 1,379.
MUNICIPAL.
Comr., J. B. LaChappelle.....Ashland

ATKINSON, 810.
MUNICIPAL.
Vil. Clerk, D. L. Jouneuot.....Atkinson
Chmn. Comrs., E. J. Mack..... "
Wells; pumps, 1-360,000 gal. triplex Goulds 1914 driven by gasoline engine, 25-hp F. M. 1914; pumping to standpipe (1892) 45,000 gal.
Pipe, 2 mi. 4 & 6-in.; hyd. 25, hose con. 3-in.; valves, 4; ord. pres. 65 lb.
Rates; meter, $1.25 quarter, 25c. 1000 gal.

AUBURN, 2,729.
MUNICIPAL.
Mayor, Church Howe.....Auburn
City Clerk, I. H. Kuper..... "
Cons. Engr., G. E. Johnson.....Falls City

AURORA, 2,630.
MUNICIPAL.
Chmn. Comrs., A. Grosshams.....Aurora
Comr., W. R. Isaac..... "
" C. R. Scovill..... "
City Clerk, J. F. Cole..... "
Supt., T. A. Harrison..... "
Wells, 3 9-in. 112 ft. deep; near center business section; no purification.
Pumps, 1-700,000 gal. vert. duplex Deane 1914 belted to elec. motor, 1-1,296,000 gal. vert. duplex Deane 1914 geared to elec. motor, one hor. centrifugal d. con. to elec. motor; elec. motors, 3 20, 30 & 40-hp. 2300 v. 3 ph. 60 cys. Westg.; pumping to reservoir & standpipe.
Hyd. 45, hose con. 3-in.; valves, 40 r. & l. h. opening Crane; meters, 700 mostly Pittsburgh; serv. con. 750; ord. pres. 40 lb.
Rates; meter, $1.25 quarter 5000 gal.

AXTELL, 394.
MUNICIPAL.
Mayor, H. M. Ingram.....Axtell
Vil. Clerk, W. A. Johnson..... "
Supt., James Johnson..... "
Well, 3-in. 150 ft. deep; near center business section; reservoir, 5000 gal.
Boiler, one tubular 50-hp. 130 lb. Erie 1912; hand stoking; gravity distribution.
Rates; flat, 50c. mo.

BEATRICE, 9,356.
MUNICIPAL.
Supt., J. R. C. Field.....Beatrice

BELGRADE, 400.
MUNICIPAL.
Vil. Clerk, E. A. Andrews.....Belgrade

Supt. & Engr. P'g. Sta.,
C. F. Cooper.....Belgrade
Wells, 6 4-in. 60 ft. deep;near center business section; no purification.
Pumps, 1-200,000 gal. vert. triplex Olds 1911 belted to oil engines, 60-hp. Sheffield 1911; pumping to standpipe (1911) steel.
Pipe, 4 mi. 4 & 6-in. c. i.; hyd. 12, hose con. 3-in.; valves, 4 l. h. opening Crane; meters, 100 Neptune; av. daily cons. 50,000 gal. 75 %; serv. con. 100; ord. pres. 75 lb., fire pres. same.
Rates; meter, min. charge $5 year 20,000 gal.

BETHANY, 948.
MUNICIPAL.
Com., J. H. Hardy.....Bethany

BLAIR, 2,584.
MUNICIPAL.
Mayor, W. D. Haller.....Blair
Comr., U. G. Garner..... "
Clerk, W. K. Strode..... "
City Engr., Christ Rohwer..... "
Wells, 3 8-in. 100 ft. deep; near center distribution; no purification.
Boiler, 75-hp.; hand stoking;- pumps, 2-1,000,000 gal. Morris; pumping to reservoirs, 2-300,000 gal.
Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 47, hose con. 2½-in. Bourbon; valves, 30 r. & l. h. thd.; meters, 265 various; serv. con. 400; ord. pres. 85 to 121 lb., fire pres. same.
Rates; meter, min. charge $6 year 1200 cu. ft., 35c. 1000 cu. ft. max., 15c min.

BLOOMFIELD, 1,264.
MUNICIPAL.
Mayor, H. W. Phillips.....Bloomfield
City Clerk, W. R. Hoyt..... "
Supt., J. E. Pruess..... "
Wells, 2 12-in. 120 ft. deep; near center business section.
Pumps, 2-50,000 gal. ea. single Goulds 1914 belted to gasoline engine, 21-hp. Otto 1900 & oil engine, 25-hp. International 1914; pumping to standpipe (1900) 51,000 gal.
Pipe, 4 mi. 2 to 8-in. c. i.; hyd. 25, hose con. 2½-in.; valves, 12 l. h. opening; meters, 100 Buffalo; av. daily cons. 50,000 gal.; serv. con. 300; ord pres. 45 to 65 lb., fire pres. same.
Rates; flat, $4 year, bath $3, closet $2.50; meter, min. charge $4 year, 35c. 1000 gal. max., 25c. min.

BLUE HILL, 761.
MUNICIPAL.
Comr. & Supt., C. C. Dickson....Blue Hill
Platte River, reservoir, 75,000 gal.
Boilers, 2 hor. 85-hp. Frost & Union; hand stoking; pumps, 2 Deane; pumping direct & to standpipe (1890) steel.
Pipe, 3.5 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. Adams, Eddy & Ludlow; valves, 14 r. & l. h. thd. Ludlow; meters, 180 various; av. daily cons. 30,000 gal.; serv. con. 160; ord. pres. 38 to 47.5 lb., fire pres. same.
Rates; all meter, min, charge $6 year.

BLUE SPRINGS, 712.
Supplied by Wymore.

BROKEN BOW, 2,260.
MUNICIPAL.
Supt., Ras Anderson.....Broken Bow

BROSTON, 610.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
City Clerk, J. Rufenrath.....
Gasoline engine, 50-hp. International.

CALLOWAY, 765.
MUNICIPAL.
Audr., F. L. Haycock.....Callaway
Wells, 3 6-in. 120 ft. deep; near center distribution; no purification.
Pumps, driven by gasoline engines, 40-hp. Foos & elec. motor, 5-hp. 220 v. 3 ph. 60 cys. G. E.; elec. energy from Callaway Mill & Electric Co., pumping direct & to tank.
Hyd. 20; av. daily cons. 28,000 gal.; serv. con. 120; ord. pres. 50 to 100 lb., fire pres. same.

CAMPBELL, 573.
MUNICIPAL.
Chmn. Comrs., D. Roulier.....Campbell
Vil. Clerk, C. E. Stasenka..... "
Wells, 2 6-in.; near center business section.
Pumps driven by distillate engine, 230-hp. 1912; pumping to standpipe (1905) 50,000 gal.
Pipe, 1.5 mi. 2 to 6-in. c. i.; hyd. 15, hose con. 3-in.; meters 100; serv. con. 150; ord. pres. 50 lb., fire pres. 70 lb.
Rates; meter, min. charge 50c. mo., 55c. 1000 gal.

CEDAR BLUFFS, 500.
MUNICIPAL.
Comr., J. E. Hadley.....Cedar Bluffs
Engr. P'g. Sta., F. C. Dickey.. " "
Vil. Clerk, J. H. Mackprang... " "
Wells, 120 ft. deep; at center distribution; no purification.
Pumps, 2-346,000 gal. Cook belted to gasoline engines, 21 & 25-hp. Otto; air compressors, 2 Curtis; pumping to air pressure tanks; 2-24,000 gal.
Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 22, hose con. 2½-in. Kupferle; valves, 12 r. h. thd. Kupferle; meters, 108 Neptune; av. daily cons. 5000 gal.; serv. con. 110; ord. pres. 45 to 70 lb., fire pres. 85 lb.
Rates; meter, min. charge $6 year, 25c. 1000 gal.

CEDAR RAPIDS, 576.
MUNICIPAL.
Chmn. Bd., J. H. McClintick, Cedar Rapids
Comr., C. H. Parsons..... " "
Vil. Clerk, E. L. Sargent..... " "
Wells, 6 4 & 6-in. 60 ft. deep; near center distribution.

Pump, 1-432,000 gal. triplex Goulds driven by gasoline engine, 20-hp. F. M.; pumping to reservoir, 75,000 gal.

Hyd. 17; av. daily cons. 6000 gal.; ord. pres. 45 lb.

CENTRAL CITY, 2,428.

MUNICIPAL LIGHT & WATERWORKS.

Mayor, L. Staats.....Central City
Chmn. Comrs., K. Lee..... " "
Comr., F. Sprague..... " "
Clerk, C. Newmyer..... " "
Supt., L. Anderson..... " "
Engr. P'g. Sta.,
John Anderson..... " "

Wells, 16 2to6-in. 40 ft. deep; near center business section.

Boilers, 2 hor. 125-hp. ea. 125 lb. Murray 1909; hand stoking; pumps, 1-504,000 gal. vert. d. act. Platt 1909; steam engines, 2 125-hp. Ridgway 1909; elec. motors, 35-hp. 2300 v. 3 ph. 60 cys. Ft. Wayne 1909; pumping to standpipe (1889) 100,000 gal.

Hyd. 45, hose con. 3-in.; valves, 10 r. & l. h. opening; meters, 300; ord. pres. 45 lb., fire pres. 90 lb.

Rates; meter, min. charge $1 quarter, 15c. 1000 gal.

CHADRON, 2,681.

MUNICIPAL.

Mayor, L. G. Fisher.....Chadron
Comr., Parley Hyde..... "
Comr., O. U. Lenington..... "
Comr., W. E. Mote..... "
Comr., F. Falmestock..... "
Supt. & Des. Engr., H. D. Mead... "
City Clerk, G. E. Marriott..... "

Chadron Creek & springs; 7 mi. from center business section; reservoirs, 3-60,000,000 gal.

Gravity distribution from reservoirs, above; pipe, 22.4 mi. 4 to 10-in. c. i., kalamein & wood; hyd. 79, hose con. 2½-in. Ludlow; valves 75 l. h. opening; meters 570 National; av. daily cons. 500,000 gal.; serv. con. 700; ord. pres. 100 to 120 lb., fire pres. same.

Rates; flat, $1.80 quarter; meter, min. charge $1.80 quarter 15,000 gal., 12c. 1000 gal. max., 5c. min.

CHAPPELL, 339.

MUNICIPAL.

Supt., R. H. Libby.....Chappell

Well, 4 ft. in diam. 30 ft. deep.

Pumps, 1-120,000 gal. F. M. belted to gasoline engine, 50-hp. F. M.; pumping to standpipe (1911) 50,000 gal. steel.

Hyd. 14, hose con. 3-in.; valves 7; meters, 39 Pittsburgh; av. daily cons. 28,500 gal.; serv. con. 39; ord. pres. 40 to 50 lb.

Rates; meters, min. charge $1 2000 gal., 10c. 1000 gal. min.

CLAY CENTER, 1,065.

MUNICIPAL.

Mayor, J. E. Wheeler.....Clay Center
Sec., R. A. Byrkie..... " "
Supt., R. E. Jessup..... " "

Well, 8-in. 165 ft. deep; in center business section; no purification.

Pumps, 1-60,000 gal. vert. single Deane 1908 d. con. to gasoline engine, 15-hp. Otto 1908. 1-150,000 gal. vert. triplex Deane 1908 d. con. to gasoline engine, 21-hp. Otto 1908; pumping to standpipe (1908) 56,000 gal.

Pipe, 6.5 mi. 2 to 8-in. c. i.; hyd. 28, hose con. 3-in. Clow; valves 30 r. h. opening Clow; meters 167 Worth; av. daily cons. 10,000 gal.; serv. con. 167; ord. pres. 43 lb.

Rates; meter, min. charge $6 year 1600 cu. ft., 18c. 200 cu. ft.

CREIGHTON, 1,373.

MUNICIPAL.

Mayor, H. J. Steinhausen.....Creighton
Comr., C. W. Meteer..... "
" Wm. A. Hufsniith..... "
City Clerk, W. L. Turner..... "
Supt., D. R. Jamison..... "
Des. Engr., L. L. Seeley..... "

Wells, 2 open; ½ mi. from center business section; no purification.

Air compressors, 3 Ruemmeli 1914 driven by elec. motor, 20-hp. 2300 v. 3 ph. 60 cys. Western 1914 & gasoline engine, 25-hp. Alamo 1914; pumping to standpipe (1912).

Pipe, 2.75 mi. 4 to 8-in. c. i.; hyd. 27, hose con. 2½-in. Detroit; valves 5 l. h. opening Detroit; meters 100; av. daily cons. 1800 gal.; serv. con. 100; ord. pres. 65 lb., fire pres. same.

Rates; meter, min. charge 35c. mo. 1000 gal.

CRETE, 2,404.

MUNICIPAL.

City Clerk, Frank Novak.....Crete
Supt. & Pur. Agt., E. J. Campbell.... "

Wells, 2 10-in. 165 ft. deep; ½ mi. from center business section.

Boilers, 2 tubular 150-hp. 125 lb. Atlas 1904; hand stoking; pumps, 1-500,000 gal. hor. comp. d. act. 1907, 1-250,000 gal. triplex Goulds 1913 belted to elec. motor, 20-hp. 2300 v. 3 ph. 60 cys. F. M. 1913.

Pipe, 6.5 mi. 4 to 10-in. c. i.; hyd. 55, hose con. 2½-in. Chapman; valves 21 r. & l. h. opening; meters 450 Neptune, Pittsburgh & Buffalo; serv. con. 450; ord. pres. 65 lb.

Rates; meter, min. charge $3 six mos. 15,000 gal., 20c. 1000 gal. max., 5c. min.

DAVID CITY, 2,177.

MUNICIPAL.

Mayor, J. R. Evans.....David City
Sec., F. Hardican..... " "
Engr. P'g. Sta., Arthur King.... " "

Wells, 3 8 & 10-in. 416 ft. deep; near center business section.

Boiler, tubular 100-hp. 120 lb. 1902; hand stoking; pumps 1-432,000 gal. hor. single F. M. 1912 belted to gasoline engine, 150-hp. F. M. 1903, 1-432,000 gal. centrifugal American belted to elec. motor, 2 25-hp. ea. 2300 v. 3 ph. 60 cys. G. E. 1901; steam engine, 150-hp. Murray 1902; pumping to standpipe, 84,000 gal.

Pipe, 6 mi. 6 to 10-in. c. i.; hyd. 54, hose con. 2½-in.; valves, 30 l. h. opening Crane; meters, 300 Pittsburgh, Buffalo & Neptune; av. daily cons. 60,000 gal. 60%; serv. con. 300; ord. pres. 45 to 53 lb.

Rates; meter, min. charge 50c. mo. 800 cu. ft., 25c. 1000 gal.

DECATUR, 782.

MUNICIPAL.

Vil. Clerk, D. B. Watson.....Decatur
Engr. P'g. Sta., C. B. Stephenson.... "

Wells, 4 4-in. 200 ft. deep; at center distribution; no purification.

Pumps, 1-144,000 gal. triplex d. con. to gasoline engine, 45 hp.-F. M.; pumping to reservoir, 78,000 gal.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 17, hose con. 2½-in. Kupferle; valves, 14 r. h. thd.; meters, 50 Neptune; av. daily cons. 10,000 gal.; serv. con. 50; ord. pres. 60 to 80 lb., fire pres. same.

Rates; meter, 20c. 100 cu. ft.

DONIPHAN, 399.

MUNICIPAL.

Supt., W. S. Pickins.....Doniphan
Des. Engr., C. F. Sturtevant..... "

Well, 8-in. 134 ft. deep; at center distribution.

Pumps, 1-120,000 gal. Keystone belted to gasoline engine, 8-hp. Dempster; elec. motors, 15-hp. 220 v. 3 ph. 60 cys. Ft. Wayne; pumping to elev. tank, 35,000 gal. steel.

Pipe, 1.7 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. Iowa; valves, 12 r. h. thd.; meters, 64 Neptune; av. daily cons. 7000 gal.; serv. con. 64; ord. pres. 50 to 55 lb., fire pres. same.

Rates; meter, min. charge 75c. 3000 gal., 20c. 1000 gal.

EDGAR, 1,080.

MUNICIPAL.

Mayor, G. R. Woods.....Edgar..
City Clerk, W. J. Breckenridge..... "
Supt. & Engr. P'g. Sta.,
J. W. Kaminska..... "

Wells, 2 100 to 140 ft. deep; at center distribution; no purification.

Boiler, hor. tub. 30-hp. Atlas; hand stoking; pumps, 1-173,000 gal. Cook; gasoline engine, 10-hp. F. M.; pumping direct & to standpipe (1888) steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 19, hose con. 2½-in. Kupferle & Adams; valves, 15 l. h. thd. Crane; meters, 82 Pittsburgh, Neptune & Buffalo; av. daily cons. 40,000 gal.; serv. con. 210; ord. pres. 46 to 100 lb., fire pres. same.

Rates; flat, 50c. mo.

ELMWOOD, 500.

MUNICIPAL.

Chmn., Comrs., Wm. Leffler.....Elmwood
Vil. Clerk, M. H. Tyson..... "
Supt., E. T. Comer..... "

Wells, 2 16-in. 100 ft. deep; near center business section; reservoir, 25,000 gal.

Pumps, one c. & f. wh. Flint & Walling 1895, one 4 x 24 in. double act. American 1914 driven by gasoline engines, 2 6-hp. Olds & F. M. 1905 & 1911; pumping to elev. tank (1900) 25,000 gal. wood.

Pipe, one mi. 3 to 6-in. c. i.; hyd. 14, hose con. 2½-in. Kupferle; valves, 6 r. h. opening; av. daily cons. 10,000 gal. 50%; ord. pres. 35 to 65 lb., fire pres. same.

Rates; flat, $9 year.

ELWOOD, 635.

MUNICIPAL ELECTRIC LIGHT & WATER WORKS.

Sec., E. B. Grunder.....Elwood
Treas., E. Shallenberger..... "
Sipt., O. E. Coate..... "

Oil engine, 35-hp. Alamo.

EXETER, 916.

MUNICIPAL.

Vil. Clerk, W. W. Kimberly.....Exeter

Deep well; near center distribution; no purification.

Pumps driven by elec. motors; pumping direct & to air-pressure tank, 56,000 gal.

Pipe, 2 mi. 4 to 12-in.; hyd. 22; hose con. 2¼ in.; av. daily cons. 20,000 gal.; serv. con. 120; ord. pres. 45 lb., fire pres. 400 lb.

FAIRBURY, 5,294.

MUNICIPAL.

Mayor, F. A. Hanston.....Fairbury
City Clerk, Edw. Wandes..... "
Chmn. Comrs., E. W. Mason..... "
Supt. & Engr. P'g. Sta.,
G. D. Myers..... "

Springs & wells, 3 ft. in diam. 45 ft. deep; 1½ mi. from center distribution; no purification.

Boilers, 2 water-tube 250-hp. ea. Van Kenney; hand stoking; pumps, 2-4,000,000 gal. Platt & Smedley; pumping to standpipe (1894) iron.

Hyd. 127, hose con. 2½-in. Iowa, Kupferle & Chapman; valves, 15 r. & l. h. thd. Chapman; meters, 900, mostly Pittsburgh; serv. con. 900; ord. pres. 65 to 70 lb., fire pres. 70 to 110 lb.

FAIRMONT, 921.

FAIRMONT ELECTRIC LIGHT & WATER Co.

Pres., T. J. Bender.....Fairmont
V. Pres., L. R. Bender..... "
Gen. Mgr. & Pur. Agt., H. Bender "

Wells, 2 8-in. 220 ft. deep; near center business section.

Pumps, 2-180,000 gal. ea. vert. s. d. act. Cook 1901, 1-540,000 gal. hor. comp. d. act. Show 1901; pumping to standpipe (1901) 84,600 gal.

Pipe, 5 mi. 1 to 8-in. c. i.; hyd. 17, hose con. 2½-in. Michigan; valves, 15 r. h. opening Jenkins & Crane; meters, 93 Pittsburgh & National; av. daily cons. 60,000 gal. 75%; serv. con. 235; ord. pres. 30 to 45 lb., fire pres. 80 to 100 lb.

Rates; flat, $3.25; meter, min. charge $1 mo. 1000 gal., 15c. 1000 gal.

FALLS CITY, 3,255.

MUNICIPAL.

Comr., L. Horrocks.....Falls City
Sipt. & Des. Engr., G. D. Johnson " "
Ch. Engr. P'g. Sta.,
A. W. Moffitt..... " "

Wells, 6 30-in. 40 ft. deep; one mi. from center distribution; no purification.

Boilers, vert. 60-hp. Erie; pumps driven by elec. motor, 107.5 kw. 120 v. 2 ph. 60 cys. G. E. & Allis-C.; elec. energy from municipal lighting plant; air compressor, Ingersoll-Rand; pumping to elev. tank, 100,000 gal. steel.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 68, hose con. 2½-in. Rensselaer; valves, 58 r. & l. h. thd. Fairbanks; meters, 669 Neptune & Hersey; av. daily cons. 6,000,000 gal.; serv. con. 672; ord. pres. 70 to 80 lb., fire pres. 80 to 90 lb.

Rates; flat, $8 year; meters, 45c. 1000 gal. max., 9c. min.

FRANKLIN, 949.

MUNICIPAL.

Mayor, B. Murry.....Franklin
City Clerk, H. Plank..... "
Supt., A. S. Creighton..... "

Well, 8-in. 57 ft. deep; pump, 1-168,000 gal. vert. simple c. & f. wh. National 1907; gasoline engine, 25-hp. F. M. 1907; meters, 150 Buffalo & Pittsburgh; serv. con. 150; ord. pres. 60 lb.

Rates; meter, min. charge $1.50 quarter 6000 gal., 25c. 1000 gal.

FREMONT, 8,718.

MUNICIPAL ELECTRIC LIGHT & WATER WORKS.

Comr., F. D. Wright.....Fremont

Boiler, 750-hp. Wickes; steam turbines, 750 kw. Allis-C.

FRIEND, 1,361.

MUNICIPAL.

Supt., L. S. Frantz.....Freind

Wells, 3 6 & 10-in. 160 to 180 ft. deep; ½ mi from center distribution; chemical, none.

Boilers, 2 hor. tubular 150-hp. Atlas & Fremont; hand stoking; pumps, 1-216,000 gal. steam Cook; 1-360,000 gal. centrifugal Luitweiler driven by elec. motor, 20 kw. 2300 v. 3 ph. 60 cys. Westg.; elec. energy from municipal electric plant; pumping to standpipe (1894) steel.

Pipe, 4.63 mi. 4 to 12-in. c. i.; hyd. 53, hose con. 2½-in. Tamaqua; valves, 32 l. h. thd.; meters, 329 Pittsburgh; av. daily cons. 200,00 gal.; serv. con. 341; ord. pres. 40 to 47 lb., fire pres. same.

Rates; flat, $6 year; meter, min. charge $1.50 quarter 5000 gal.; 30c. 1000 gal. max., 20c. min.

FULLERTON, 1,638.

MUNICIPAL.

Supt., F. J. Brown.....Fullerton
Engr. P'g. Sta., Will Wolters..... "
City Engr., A. B. Ellsworth..... "

Wells, 2 15 ft. in diam. 35 ft. deep; ¾ mi. from center distribution.

Pumps, 1-432,000 gal. Goulds, 1-576,000 gal. F. M. belted to elec. motors, 15 kw. 440 v. 3 ph. 60 cys. G. E., 15kw. 440 v. 2 ph. 60 cys. F. M.; elec. energy from Fullerton Electric Light & Power Co.; pumping to reservoir, 200,000 gal.

Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 50, hose con. 3-in. Kupferle & Iowa; valves, 22 r. & l. h. thd.; meters, 312 National & Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 320; ord. pres. 70 lb.

GENOA, 1,376.

MUNICIPAL.

Supt., B. D. Gorman.....Genoa

GOTHENBURG, 1,730.

MUNICIPAL.

Supt., George Stiff.....Gothenburg
City Clerk, H. C. Luotjenheisen "
Mayor, D. L. Carroll..... "

Wells, 5 6-in. 70 ft. deep; near center distribution; no purification.

Pumps, 1-504,000 gal. driven by elec. motor; elec. energy from Gothenburg Light & Power Co.; pumping to elev. tank (1908) 65,000 gal. steel.

Pipe, 3 mi. 4 to 12-in.; hyd. 60, hose con. 3-in.; meters, 160; av. daily cons. 75,000 gal.; serv. con. 165; ord. pres. 52 lb., fire pres. same.

Rates; meter 15c. 1000 gal.

GRAFTON, 353.

MUNICIPAL.

Chmn. Comrs., W. Hawkins.....Grafton
Vil. Clerk, E. D. Charles..... "

Well, 6-in. 150 ft. deep; ¼ mi. from center business section; no purification.

Pump, 1-50,000 gal. single Dempster 1906 belted to gasoline engine, 35-hp. Alamo 1912; pumping to elev. tank, 2500 gal.

Pipe, 5 mi. 6-in. c. i.; hyd. 19, hose con. 2½-in.; valves, 10 l. h. opening crane; meters, 75 Neptune; av. daily cons. 10,000 gal.; serv. con. 75; ord. pres. 35 to 80 lb., fire pres. 50 to 100 lb.

Rates; flat, $1.25 mo.; meter, $1.25 mo. 2000 gal., 15c. 1000 gal.

GRAND ISLAND, 10,326.

MUNICIPAL.

Comr., J. H. Miller.....Grand Island
Asst. Comr., J. C. McAuley... " "
Engr. P'g. Sta., J. J. Owens... " "

Wells, 10 14-in. 90 ft. deep; ¼ mi. from center distribution; reservoir, 300,000 gal.; no purification.

Boilers, 3 water-tube 750 hp. Erie; hand stoking; pumps, 3-7,000,000 gal., 2 Platt & one L-D-G; elec. motors, 70 kw. 220 v. 3 ph. 60 cys. G. E. & Westg.; air compressors, 2 Ingersoll-Rand; pumping direct.

Pipe, 35.75 mi. 4 to 30-in. c. i.; hyd. 165, hose con. 2½-in. Ludlow; valves, 89 r. & l. h. thd.; meters, 1800, mostly Neptune; av. daily cons. 2,000,000 gal.; serv. con. 1800; ord. pres. 40 to 75 lb., fire pres. 80 to 130 lb.

HARTINGTON, 1,413.
MUNICIPAL.
Mayor, Anton Waby.....Hartington
Vil. Clerk, W. H. Pohle..... "
Engr. P'g. Sta.,
C. H. Connelly..... "
Well, one 16-ft. in diam. 23-ft. deep, 5 12-in. 28-ft. deep.
Pumps, 1-360,000 gal. vert. triplex Deming 1911 geared to oil engine, 25-hp. F. M. 1911, 1-240,000 gal. hor. single 1898 geared to gas engines, 16-hp. F. M. 1898; pumping to elev. tank (1912) 80,000 gal. steel, Des Moines Bridge & ron Co.
Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 30, hose con. 2½-in. R. D. W.; valves, 10 l. h. opening Crane; meters, 58 National; av. daily cons. 80,000 gal.; serv. con. 250; ord. pres. 50 to 85 lb.
Rates; flat, 50c. mo., bath 20c., closet 20c.; meter, min. charge 50c. mo. 2500 hal., 15c. 100 cu. ft.

HARVARD, 1,102.
MUNICIPAL.
Comr., B. F. Eller.....Harvard

HASTINGS, 9,338.
MUNICIPAL.
Mayor, C. G. Ingraham.....Hastings
Supt., H. H. Cloyd..... "
Wells, 4 6&8-in. 250 ft. deep; one mi. from center distribution; no purification.
Boilers, 4 marine, 3-200-hp. & 1-300-hp. Springfield; hand & mechanical stoking, one Jones; pumps, 1-3,000,000 gal. Platt, 1-1,000,000 gal. Platt; pumping to standpipe (1887) steel.
Pipe, 30 mi. 4 to 16-in. c. i.; hyd. 186, hose con. 2½-in. Holly; valves, 115 r. & l. h. thd.; meters, 2500 National & Neptune; av. daily cons. 800,000 gal.; serv. con. 2500; ord. pres. 35 to 50 lb., fire pres. 75 to 110 lb.
Rates; all meter, 16c. 100 cu. ft. max., 8c. min.

HAVELOCK, 2,680.
MUNICIPAL.
Mayor, John Cloos.....Havelock
Chmn. Comrs., W. T. Schuler.... "
Comr., Ed. Ballance..... "
City Clerk, A. J. Blount..... "
Supt., H. H. Gregg..... "
Wells, 6 10-in. 200 ft. deep; near center business section; no purification.
Pumps, 1-288,000 gal. triplex F. M. 1912 belted to oil engine, 1-360,000 gal. triplex F. M. 1912 belted to elec. motor, 2-360,000 hor. centrifugal Platt 1912 d. con. to elec. motor; elec. motors, 75 & 50-hp. 440 v. 3 ph. 60 cys. Westg. 1912; oil engine, 40-hp. F. M.; elec. energy from Lincoln Electric Light & Gas Co., pumping direct and to elev, tank (1911) 150,000 gal. steel.
Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 90, hose con. 3-in.; valves, 30; meters, 325 Pittsburgh & Neptune; av. daily cons. 75,000 gal.; serv. con. 325; ord. pres. 50 to 60 lb., fire pres. 90 to 110 lb.
Rates; meter, min. charge 50c. mo. 2000 gal., 20c. 1000 gal.

HEBRON, 2,078.
MUNICIPAL.
Supt., O. P. Hess.....Hebron
Wells, 6 12-in. 27 ft. deep.
Pumps, 1-432,000 gal. Advance driven by elec. motors, 35 kw. 2300 v. 3 ph. 60 cys. Ft. Wayne; elec. energy from local elec. lt. plant; pumping to standpipe –1892) steel.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 51, hose con. 3-in. Tamaqua; valves, 23 r. & l. h. thd. Crane; meters, 195 Thomson, Pittsburgh & Neptune; serv. con. 250; ord. pres. 60 to 85 lb., fire pres. 85 lb.
Rates; flat, $6 year; meters, 25c. 1000 gal.

HOLDREDGE, 3,030.
MUNICIPAL.
Supt., John Erkson.....Holdredge

HOWELLS, 800.
MUNICIPAL.
Comr., Frank Hampl.....Howell
Vil. Clerk, Geo. Lodes..... "
Wells, 2 8-in. 70 ft. deep; near center business section.
Boiler, 60-hp. 80 lb. 1905; pump, 1-500,000 gal. vert. d. act. Advance 1910; steam engines, 60-hp. Corliss 1913; elec. motor, 45 kw. 220 v. d. c. 1905; pumping to standpipe (1905).
Hyd., 12, hose con. 2-in.; meters, 50 Pittsburgh; av. daily cons. 30,000 gal. 80%; serv. con. 50; ord. pres. 10 to 120 lb., fire pres. same.
Rates; all meter, min. charge $1.35 quarter, 25c. 1000 gal. max., 15c. min.

KENESAW, 657.
MUNICIPAL.
Comr., A. A. Armitage.....Kenesaw

LINCOLN, 43,973.
MUNICIPAL.
Mayor, Frank C. Zehrung.....Lincoln
Comr., James Tyler..... "
Ch. Engr., Andrew G. Johnson..... "
Supt. Constr., J. A. Knudson..... "
" Meters, Belden Finley..... "
Wells, one 47 ft. in diam. 77 ft. deep with 6 tubular in bottom 50 to 100 ft. deep, one 40 ft. in diam. 60 ft. deep, 13 tubular 6 & 12-in.; chemical, hypochlorite of lime.
Boilers, 3 water-tube 150-hp. ea. Murray, 2 water-tube 250 & 500-hp. Murray; pumps, 1-2,000,000 gal. power triplex Rumsey, 1-6,000,000 gal. Snow, 1-3,000,000 gal. trip. exp., 1-1,500,000 gal. F. M., 1-3,000,000 gal. turbine Worth., 3-800,000 gal. ea. deep well American; 1-800,000 gal. deep well B. J., 1-800,000 gal. deep-well Gregg, 1-1,500,000 gal. Goulds, 1-3,000,000 gal. centrifugal, 3-2,400,000 gal. deep-well Gregg; air compressor, Ingersoll-Rand; pumping direct & to reservoirs, 4-4,300,000 gal.
Pipe, 86.5 mi. 4 to 30-in. c. i.; hyd. 737; valves, 686; meters, 9202 mostly Hersey &

National; av. daily cons. 3,400,000 gal.; serv. con. 10,029; ord. pres. 45 to 55 lb., fire pres. 90 to 110 lb.

McCOOK, 3,765.

MUNICIPAL.

Mayor, M. Lawritson.....McCook
Comr. & Supt., James A Gollehon. "
Des. Engr., J. W. Chase..... "
Engr. P'g. Sta., John Underhill.... "

Wells near Republican River, 6-24 ft. in diam. 24 ft deep,14 12-in. 24 ft deep; one mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 2 fire-tube 100-hp. Kewanee; hand stoking; pumps, 1-1,000,000 gal. Deane 1-1,500,000 gal. Platt; well pump driven by oil engine, 25-hp. Meitz & Weiss; pumping to standpipe (1891).

Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 53, hose con. 2½-in. Eddy, Ludlow & Kupferle; valves, 50 l. h. thd. Ludlow; meters, 850 Buffalo, Pittsburgh, Neptune & National; av. daily cons. 335,000 gal.; serv. con. 850; ord. pres. 45 to 55 lb., fire pres. 45 to 75 lb.

Rates; all meter, 9c. 100 cu. ft.

MASON CITY, 480.

MUNICIPAL.

Chmn. Comrs. Nels Peterson...Mason City
Supt., H. S. Kellar..... " "

Wells, 3; no purification.

Pump driven by gasoline engine, 6-hp. F. M. 1904; pumping to standpipe (1913) 50,000 gal.

Pipe, one mi. 4 & 6-in. c. i.; hyd. 17, hose con. 2-in. F. M.; valves, 4 l. h. opening F. M.; meters, 41 Pittsburgh; av. daily cons. 8,500 gal. 100%; serv. con. 73; ord. pres. 40 to 50 lb., fire pres. same.

Rates; meter, min. charge $1.50 quarter 2000 gal., 25c. 1000 gal.

MINDEN, 1,559.

MUNICIPAL.

Mayor, Isaac Hill.....Minden
Comr., V. V. Sears..... "
City Clerk, L. E. Robb..... "
Engr. P'g. Sta., Lars Otteson..... "

Wells, 2 8 & 10-in. 90 to 195 ft. deep; near center business section; reservoir, 100,000 gal.; no purification.

Boilers, 2 hor. tubular 100-hp. ea. 100 lb. Kewanee 1914 & Frost 1900; hand stoking; pumps, 3 hor. simple d. act. and one vert. simple d. act. Advance 1900 & Gardner 1914; air compressors, 200 cu. ft. American 1900, 252 cu. ft. Ingersoll-Rand 1910; steam engines, 2 75 & 100-hp. Skinner 1914; pumping to standpipe (1894) 75,000 gal.

Hyd., 54, hose con. 4-in Rensselaer; valves, 20 l. h. opening; meters, 350 Neptune & National; av. daily cons. 20,000 gal. 80%; serv. con. 420; ord. pres. 40 to 48 lb. fire pres. 80 to 120 lb.

Rates; meter, min. charge $2.25 quarter 750 cu. ft., 20c. 100 cu. ft.

NELIGH, 1,566.

MUNICIPAL.

Supt., S. T. Coker.....Neligh

NORFOLK, 6,025.

MUNICIPAL.

Mayor, C. J. Verges.....Norfolk
Comr., W. C. Roland..... "
Comr., Herman Gerecke..... "
City Clerk, P. F. Stafford..... "
Supt., J. A. Huebner..... "
Cons. Engr., H. H. Tracy..... "
Engr. P'g. Sta., W. Christian..... "

Wells, 7 6 to 12-in. 100 to 900 ft. deep; ¼ mi. from center distribution.

Pumps, 2-72,000 gal. vert. triplex Goulds 1912–13 geared to elec. motor, 2 35-hp. ea. 3 ph. G. E. 1912–13, 1-567,000 gal. vert. deep well Downie 1914 geared to elec. motor, 25-hp. 3 ph. Westg. 1914; elec. energy from Nebraska Gas & Elec. Co.; pumping to standpipe (1890) 230,000 gal.

Pipe, 25 mi. 4 to 16-in. c. i.; hyd. 300, hose con. 2½-in. Chapman & Kupferle; valves, 80 r. h. opening Crane; meters, 700 National, Pittsburgh & Neptune; av. daily cons. 600,000 gal.; serv. con. 800; ord. pres. 50 to 80 lb., fire pres. 75 to 100 lb.

Rates; flat, $6 year; meter, min. charge 50c. mo., 15c. 1000 gal.

NORTH BEND, 1,105.

MUNICIPAL.

Mayor, L. B. McCleson.....North Bend
Pres. Comrs., J. F. Dotie..... " "
Sec., F. D. Howe..... " "
Supt., D. G. Lehmer..... " "

Wells, 6 8-in. 28 ft. deep; in center business section; no purification.

Pump, 1-180,000 gal. hor. triplex Deane 1900 driven by gasoline engines, 2 25-hp. ea. Otto 1900; pumping to standpipe (1900) 40,000 gal.

Pipe, 3 mi. 4 & 6-in. c. i.; hyd., 25, hose con. 2½-in. Nelson; valves, 10 l. h. opening; meters, one; av. daily cons. 60,000 gal.; serv. con. 85; ord. pres. 30 lb., fire pres. 80 lb.

Rates; flat $5 six mos., bath $1, closet $1; meter, 25c. 1000 cu. ft.

NORTH PLATTE, 4,795.

MUNICIPAL.

Supt. & Comr., H. S. Welch..North Platte

Wells, 41 6-in. 75 to 90 ft. deep; ½ mi from center distribution.

Boilers, 3 hor. return tubular 80-hp. ea. Frost; hand stoking, pumps, 1-1,500,000 gal. Walker, 1-750,000 gal. Buffalo, 1-300,-000 L-D-G; pumping direct.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 74, hose con. 2½-in. Ludlow & Iowa; valves, 52 Ludlow & Iowa; meters, 1180 Hersey; av. daily cons. 1,000,000 gal.; serv. con. 1200; ord. pres. 40 to 60 lb., fire pres. 80 to 125 lb.

Rates; flat, $6 year, bath $4, closet $3; meter, 15c. 1000 gal. max., 6c. min.

OMAHA, 124,096.

MUNICIPAL.

Director, F. D. Wead.....Omaha
" P. C. Heafey..... "
" C. R. Cherman..... "
" M. J. Coad..... "

Gen. Mgr., R. B. Howell.....Omaha
Ch. Engr., Geo. T. Prince..... "
Supt., A. B. Hunt..... "
Ch. Engr. P'g. Sta., W. Pulte..... "
Chemist, A. Jacobson..... "

Missouri River; 6 mi. from center distribution; coagulating basins, 5-59,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina and lime.

Boilers, 16 vert. water-tube 4600-hp. Wickes; hand & mechanical stoking, chain grate & Jones; pumps, 12-173,500,000 gal.; pumping direct & to reservoirs, 3-24,000,000 gal.

Pipe, 274.3 mi. 4 to over 30-in. c. i.; hyd. 2450, hose con. 2½-in. Rensselaer & R. D W.; valves, 2163; meters, 23, 818; av. daily cons. 19,000,000 gal.; ord. pres. 20 to 135 lb.

Wates; meter, min, charge, 60c. mo., 26¼c. 100 cu. ft. max., 6c. min.

ORD, 1,560.

MUNICIPAL.

Comr., W. Sorenson.....Ord

OSCEOLA, 1,105.

MUNICIPAL.

Mayor, H. C. Beebe.....Osceola
City Clerk, W. E. Snider..... "
Supt., A. A. Gray..... "

Wells, 2 6-in. 200 ft. deep.

Pumps, 2-108,000 gal. ea. American driven by gasoline engine, 32 hp. F. M.; pumping to standpipe (1905) steel.

Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 30, hose con. 2-in.; meters, 300 various; av. daily cons. 35,000 gal.; serv. con. 300; ord. pres. 45 lb., fire pres. 125 lb.

PAWNEE CITY, 1,610.

MUNICIPAL.

Mayor, D. E. Wherry.....Pawnee City
City Clerk, H, D. Flory..... " "
Supt. & Engr. P'g. Sta.,
T. H. Lawrie..... " "

Wells, 13 35 ft. deep; ¾ mi, from center business section; reservoir, 2000 gal.; coagulating basin 200,000 gal.

Boilers, 2 hor. 125-hp. ea. 100 lb. Atlas 1909; pumps, 1–1,080,000 gal. hor. comp. d. act. Worth. 1914, 1-504,000 gal. vert. triplex Goulds 1913 d. con. to elec. motor, 10-hp. 220 v. single ph. 60 cys. Century 1914; steam engines, 250-hp. Bates 1906, 100-hp. Erie 1890; elec. motors, 2 5-hp. ea. 220 v. single ph. 60 cys. Century 1914; pumping to reservoir above & to standpipe (1890) 100,000 gal.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 22, hose con. 3-in.; meters, 51 Neptune; av. daily cons. 100,000 gal.; serv. con. 381; ord. pres. 65 to 75 lb., fire pres. same.

Rates; flat, $6.40 year, bath $1.75, closet $2.25; meter, min. charge 50c. mo. 1500 gal.

PENDER, 804.

MUNICIPAL.

Mayor, W. B. Warrington.....Pender
Sec., A. Joost..... "
Supt. & Engr. P'g. Sta., H. Brandt..Pender

Wells, 3 6 & 8-in. 57 ft. deep; near center business section; reservoir, 8,000 gal.

Boiler, 50-hp. 115 lb. 1908; hand stoking; pumps, 2 hor. comp. d. act. Advance & F. M.; steam engines, 80-hp. Westg. 1909 elec. motor, 8 kw. 115 v. a. c. Western 1909; pumping to standpipe (1895).

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 15, hose con. 4-in.; valves, 2 l. h. opening; meters, 50; ord. pres. 47 lb., fire pres. 47 to 80 lb.

Rates; flat, $4.80 year, bath $2.40, closet $2.40, meter, 25c. 1000 gal.

PIERCE, 1,200.

MUNICIPAL.

Supt., Geo. Goss.....Pierce

PLAINVIEW, 941.

MUNICIPAL.

Supt., O. A. Curtis.....Plainview

Wells, 2 6-in. 125 ft. deep; near center distribution.

Boilers, fire-tube 100-hp. Murray; hand stoking; pumps, 1-432,000 gal. Deming; gasoline engines, 25-hp. Waterloo; pumping to pressure tank.

Hyd. 18, hose con. 3-in.; meters, 95 Neptune & Buffalo; av. daily cons. 50,000 gal.; serv. con. 100; ord. pres. 25 to 90 lb.; fire pres. 90 to 125 lb.

Rates; flat, $1.50 quarter; meters, 25c 1000 gal.

PONCA, 1,000.

MUNICIPAL.

Chmn. Comrs., Wm. Angue, Jr.....Ponca
Comr., N. P. Heydon..... "
Mayor, G. L. Wood..... "
City Clerk, A, N. Porter..... "
Supt., W. A. Scollard..... "

Wells, 10 5-in. 38 to 64 ft. deep; near center business section; no purification.

Pump, one hor. duplex F. M. 1905 belted to gasoline engine, 25-hp. F. M. 1905; pumping to reservoir, 30 ft. diam. 14 ft. deep.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 26, hose con. 2½-in. Phœnix; valves, 11 l. h. open ing Phœnix; ord. pres. 60 lb., fire pres. same.

Rates; flat, $6 year, bath $3, closet $5; meter, 30c. 1000 gal.

RANDOLPH, 1,137.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, O. O. Reed.....Randolph
Sec., M. D. Dollard..... "
Treas., E. S. Mallard..... "
Supt., G. D. Miley..... "
Engr. P'g. Sta., E. H. Chambers. "

Gas engine, 25-hp. Olds; gas producer, 80-hp. Minneapolis.

RAVENNA, 1,359.

MUNICIPAL.

Supt. & Engr. P'g. Sta., O. O. Geist., Ravenna

Wells, 3 6-in. 231 ft. deep; ½ mi. from center distribution; no purification.

Pumgs driven by elec. motors, 30-hp

2200 v. 3 ph. 60 cys. Westg.; elec. energy from Ravenna Elec. Light & Power Co.; pumping to reservoir, 231,000 gal.

Pipe, 5.5 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. various; valves, 22 r. h. thd. Crane; meters, 364 Pittsburgh; av. daily cons. 60,000 gal.; serv. con. 364; prd. pres. 30 to 60 lb., fire pres. 40 to 80 lb.

Rates; all meter, min. charge $6 year, 20c. 1000 gal.

RED CLOUD, 1,686.

MUNICIPAL.

Supt., Guy Ziegler.....Red Cloud

Wells, 3 6 ft. in diam. & 1 25 ft. in diam. 30 ft. deep; ½ mi. from center distribution; reservoir, 70,000 gal.; no purification.

Boilers, 2 return tubular 150-hp. ea. Kewanee & Atlas; hand & mechanical stoking, Jones; pumps, 1-4,000,000 gal. Deane, 1-700,000 gal. F. M.; pumping direct & to standpipe (1885) steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 42, hose con. 3-in. R.D.W.; valves, 15 l. h. thd.; meters, 325 Buffalo & Pittsburgh; av. daily cons. 125,000 gal.; serv. con. 325; ord. pres. 45 to 55 lb., fire pres. 55 to 100 lb.

Rates; all meter, min. charge $1 quarter, 20c. 1000 gal.

ST. PAUL, 1,336.

MUNICIPAL.

Mayor, F. S. Nicholson.....St. Paul
City Clerk, A. C. Rowell..... " "
Engr. P'g. Sta., A. E. Taft..... " "

Wells, 38 2 & 4-in. 15 ft. deep; at center distribution; no purification.

Boilers, 2 fire-tube 80-hp. Freeman; hand stoking; pumps 2-1,584,000 gal. Buffalo; pumping to standpipe (1887) iron.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 3½-in. Kupferle; valves, 14 r. h. thd.; meters, 75 various; av. daily cons. 100,000 gal.; serv. con. 180; ord. pres. 35 to 50 lb., fire pres. 100 to 110 lb.

Rates; flat, $6 year, bath $2.50, closet, $3.50.

SCHUYLER, 2,152.

MUNICIPAL.

Mayor, J. C. Woodward.....Schuyler
Chmn. Comrs., H. W. Kohn..... "
Comr. & Supt., E. A. Schmid..... "
Engr. P'g. Sta., W. L. Lumberg.... "

Wells, 2 6 & 8-in. 40 ft. deep; near center distribution; no purification.

Boilers, 2 return tubular 50-hp. ea. MacKinnon; hand stoking; pumps, 3-1,150,000 gal. Platt; pumping to standpipe (1892) iron.

Pipe, 8 mi. 4 to 12-in. c. i. & wood; hyd. 45, hose con. 2½-in Michigan; valves, 20 r. & l. h. thd.; meters, 273 Buffalo & Neptune; av. daily cons. 142,000 gal.; serv. con. 275; ord. pres. 35 to 45 lb., fire pres. 40 to 65 lb.

Rates; all meter, min. charge $1 quarter, 25c. 1000 gal. max., 10c. min.

SCOTTS BLUFF, 1,746.

MUNICIPAL.

Supt., O. M. Finley.....Scotts Bluff

SEWARD, 2,106.

MUNICIPAL.

Mayor, W. T. Souders.....Seward
Mgr., John Martz..... "

SHELTON, 1,005.

MUNICIPAL.

Vil. Clerk, G. W. Bastian.....Shelton

Wells, 3 4-in. 65 ft. deep; pumping to elev. tank (1904) iron; hyd. 20; meters, 125 Neptune; av. daily cons. 1900 gal.; serv. con. 125; ord. pres. 55 lb., fire pres. 80 lb.

Rates; all meters, min. charge $5 six mo., 15c. 1000 gal.

SOUTH OMAHA, 000.

Supply by the City of Omaha.

SPENCER, 671.

MUNICIPAL.

City Clerk, N. A. Hagenstine.....Spencer
Pur. Agt. & Engr. P'g. Sta., Frank Heenan..... "

Springs; one mi. from center business section; reservoirs, 2-80,000 gal, no purification.

Pumps, 2-50,000 gal. hor. simple F. M.; air compressor, 14 cu. ft. National 1905; gasoline engine, 35-hp. F. M. 1905; pumping to tank.

Pipe, 3.5 mi. 4 to 6-in. c. i.; hyd. 18, hose con. 2½-in. Sunderland; valves, 10 r. h. opening Crane; meters, none; ave daily cons. 40,000 gal.; serv. con. 225; ord. pres. 65 lb., fire pres. 90 to 100 lb.

Rates; flat, $10 year.

STANTON, 1,342.

MUNICIPAL WATER & LIGHT PLANT.

Mayor, F. A. Raebe.....Stanton
Comr., G. Krenzlen..... "
Supt., John Schindler..... "
Engr. P'g. Sta., Joesph Chilcoat.... "

Wells, 10 3-in. 60 ft. deep; no purification.

Boiler, return tubular 125-hp. Erie 1913; pump, 1-403,000 gal. vert. triplex Erie 1913 belted to steam engine 100-hp. Erie 1913; gasoline engine, 35-hp. Olds 1908; pumping to standpipe (1892) 2,900 gal.

Pipe, 2.7 mi. 4 & 6-in.; hyd. 23, hose con. 3-in. Kupferle; valves, 14; meters, 203 various; av. daily cons. 45,000 gal.; serv. con. 203; ord. pres. 50 to 70 lb., fire pres. same.

Rates; meter, 25c. 1000 gal.

STRATTON, 367.

MUNICIPAL.

Engr. P'g. Sta., Elmer Martin....Stratton

Wells, 6 15-in. 36 ft. deep; at center distribution; no purification.

Pumps, 1-330,000 gal. Deane driven by gasoline engine, 50-hp. Foos; pumping to standpipe (1911) steel.

Pipe, 3.5 mi. 4 to 12-in. c. i. & galv. i.; hyd. 24, hose con. 2½-in. Iowa; valves, 10; meters, 52 Buffalo; av. daily cons. 30,000 gal.; serv. con. 57; ord. pres. 40 to 69 lb., fire pres. same.

Rates; flat, 50c. mo.

SUPERIOR, 2,106.

MUNICIPAL.

Mayor, P. Johnsen.....Superior
Comr., W. S. Young..... "
City Clerk, J. W. Wobbins..... "
Supt., Clarence Hunter..... "
Cons. Engr., Winkoop Kiersted, 640 Midland Bldg., Kansas City, Mo.
Engr. P'g. Sta., C. S. Macy.....Superior

Wells, 7 6 & 25-in. 42 to 47 ft. deep; ½ mi. from center distribution; reservoirs, 2-1,135,000 gal.; no purification.

Boilers, 2 hor. 100-hp. ea. 100 lb. 1904; pumps, 1-100,000 gal. hor. simple d. act. Deane 1888, 1-150,000 gal. hor. comp. c. & f. wh. 150,000 gal. L-D-M 1915; pumping direct.

Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 47, hose con. 2½-in. Chapman; valves, 16 r. & l. h. thd. Chapman; meter, 465 Thomson, Neptune & Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 474; ord. pres. 70 lb., fire pres. 120 lb.

Wates; flat, $2.50 six mo., bath $1.25 closet $1; meters, 20c. gal. 1000 max., 10c. min.

SUTTON, 1,702.

MUNICIPAL.

Mayor, M. J. Weiland.....Sutton
City Clerk, C. M. Brown..... "
Supt., W. J. Brown..... "

Wells, 4 8-in. 100 ft. deep; near center business section; no purification.

Pump, one triplex Platt 1910 driven by elec. motor, 25-hp. 220 v. d.c. Western 1910; elec. energy from Sutton Electric & Power Co.; pumping to standpipe (1892) 60,000 gal.

Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 77, hose con. 2½-in.; valves, 30 r. & l. h. opening; meters, 350 various; av. daily cons. 75,000 gal. 90%; serv. con. 450; ord. pres. 65 lb.

Rates; flat, 50 mo.; meters, min, charge 50c. mo. 2000 gal., 25c. 1000 gal.

SYRACUSE, 842.

MUNICIPAL.

Sec., Trustees, Wm. O. Stanbro....Syracuse
Supt., J. E. Weed..... "

Wells, 10 2-in. 50 to 55 ft. deep; near center business section.

Pump, 1-100,000 gal. hor. F. M. 1909; pumping to standpipe (1894) 50,800 gal.

Pipe, 3.5 mi. 2 to 8-in. c. i. & steel; hyd. 24, hose con. 2½-in. Phoenix; valves, 12 l. h. opening; meters, 125 National, Buffalo & Hersey; serv. con. 147; ord. pres. 35 to 75 lb., fire pres. same.

TECUMSEH, 1,748.

MUNICIPAL.

Mayor, H. Villars.....Tecumseh
Chmn. Comrs., Geo. Miller.....Tecumseh
Comr., Dr. J. C. Bowman..... "
" A. Russell..... "
Supt. & Des. Engr., W. Tasker.... "
Engr. P'g. Sta., A. R. Taylor..... "

Wells, 3 18-in. to 36 ft. in diam. 30 to 42 ft. deep; ¼ to ¾ mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 2 tubular 275-hp. Frost & Erie; hand stoking; pumps, 3-1,150,000 gal. F. M. & Union; elec. motors, 30 kw. 440 v. 3 ph. 60 cys. F. M. & Westg.; pumping to reservoir, 150,000 gal. and elev. tank (1909) 150,000 gal. steel.

Pipe, 8 mi. 4 to 12-in c. i.; hyd. 42, hose con. 2½-in Iowa; valves, 22 r. h. thd.; meters, 300 Hersey, Pittsburgh, Buffalo & Neptune; av. daily cons. 150,000 gal.; serv. con. 300; ord. pres. 50 to 60 lb., fire pres. 100 to 110 lb.

Rates; all meter, 50c. 100 cu. ft. max., 12c. min.

TOBIAS, 445.

MUNICIPAL.

Chmn. Comrs., H. A. Taabaug.....Tobias

Well, 8 ft. in diam. 90 ft. deep; near center distribution.

Belt driven by gasoline engine, Otto; pumping to air pres. tank, 15,000 gal.

Hyd. 21, hose con. 2½-in. National; av. daily cons. 7000 gal.; serv. con. 63; ord. pres. 40 to 50 lb., fire pres. same.

TRENTON, 497.

MUNICIPAL.

Comr., J. Hurst.....Trenton
Engr. P'g. Sta., Clark Marsh..... "

Wells, 4 4-in. 20 ft. deep; near center business section; pump, one hor. triplex belted to oil engine, 15-hp. Foos; pumping to standpipe, 60,000 gal.

Hyd. 20, hose con. 4-in.; meters, 55 Pittsburg & Crane; serv. con. 55; ord. pres. 70 lb.

Rates; meter, 15c. 1000 gal.

UNIVERSITY PLACE, 3,200.

MUNICIPAL.

Chmn. Comrs.,
V. D. Timerman.....University Place
Comr., Chas. Enyart..... " "
Comr., L. D. Clifton..... " "
City Clerk, C. Gates..... " "
Supt., R. S. Hyatt..... " "

Wells, 4 6 to 12-in. 150 ft. deep; near center business section; no purification.

Pumps, 2-280,000 gal. vert. duplex Luitwieler 1915 geared to elec. motors, 1-432,000 gal. vert. triplex Sandusky 1908, 2-172,800 gal. vert. single Cook 1908 belted to elec. motor; elec. motors, 12, 15, 20 & 25-hp. 220 v. 3 ph. 60 cys. G. E. 1908, 1910 & 1915; elec. energy from Lincoln Traction Co.; pumping to standpipe.

Pipe, 4 to 8-in. c. i.; hyd, 78, hose con. 2½-in. R. D. W.; valves, r. h. opening Crane; meters, National, Neptune, Buffalo & Pittsburgh; serv. con. 700; ord. pres. 130 to 160 lb., ord. pres. 200 lb.

Rates; meter, min. charge $1.50 quarter, 800 cu. ft.

VALENTINE, 1,098.
MUNICIPAL.
Mayor, G. E. Tracewell.....Valentine
City Clerk, W. E. Haley..... "
Supt., H. W. Graham..... "
Cons. Engr., A. B. Green..... "
Springs & Lake Minichadusa; one mi. from center business section; no purification.
Boiler, one; pump, 1-216,000 gal. hor. simple d. act. F. M. 1895, 1 centrifugal d. con. to elec. motor 30-hp.; part of the pumping is done by Mr. S. F. Gilman with a triplex pump of 180,000 gal.; pumping to elev. tank (1912) 100,000 gal. steel.
Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 27, hose con. 2½-in;. valves, 19 l. h. opening Crane; meters, 251 Buffalo; av. daily cons. 75,000 gal. 97%; serv. con. 268; ord. pres. 75 lb.
Rates; flat, $3 quarter, bath $1.60, closet $1.42; meter, min. charge $2.50 quarter 500 cu. ft.

WAHOO, 2,168.
MUNICIPAL.
Comr. & Supt., H. M. Robertson...Wahoo
Wells, 4 8-in. 85 ft. deep; one mi. from center distribution; no purification.
Boilers, 2 return tubular 150-hp. ea. Erie; hand stoking; pumps, 1-504,000 gal. Walker; pumping direct & to elev. tank, 125,000 gal. iron.
Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 67, hose con. 2½-in. R-D-W; valves, 35 l. h. thd. Walker; meters, 386 Pittsburgh & Neptune; av. daily cons. 150,000 gal.; serv. con. 535; ord. pres. 75 to 110 lb., fire pres. 110 lb.
Rates; flat, $6 year; meters, 25c. 1000 gal. max., 10c. min.

WAYNE, 2,140.
MUNICIPAL.
Mayor, C. A. Chase.....Wayne
Chmn. Comrs., M. O. Hansen..... "
City Clerk, J. M. Cheery..... "
Supt., Ed. Murrill..... "
Wells, 30 2-in. 56 ft. deep; near center business section.
Boilers, 2 125-hp. ea. 135 lb. Kenny 1898 & 1904, one 150-hp. Frost 1931; hand stoking; pumps, 1-720,000 gal. vert. comp. d. act. F. M. 1901, 1-720,000 gal. hor. triplex driven by elec. motor; steam engines, 85-hp. Murray 1898, 125-hp. Ide 1904; elec. motors, 75 kw. 240 v. d. c. Westg. 1898, 75 kw. 240 v. d. c. 1904; pumping to standpipe (1894) 65,000 lb.
Pipe, 12 mi. 4 to 8-in.; hyd. 56, hose con. 3-in. National; valves, 24 l. h. opening Crane; av. daily cons. 70,000 gal.; serv. con. 350; ord. pres. 48 to 52 lb.
Rates; flat, $6 quarter, both $2.50, closet $2.50.

WEEPING WATER, 1,067.
MUNICIPAL.
Mayor, Fred H. Gorder....Weeping Water
City Clerk, Wm. Lyman... " "
Supt. & Comr., V. E. Smith " "
Wells; pumps, 1-68,400 gal., 1-200,000 gal. Rumsey belted to gasoline engine, 35 & 50-hp. Alamo & elec. motors, 12 kw. 220 v. d. c. Westg.; elec. energy from municipal plant; pumping to reservoir.
Hyd. 18; meters, 89 various; av. daily cons. 25,000 gal.; serv. con. 89; ord. pres. 60 lb., fire pres. 60 to 100 lb.
Rates; meter, 40c. 100 cu. ft.

WEST POINT, 1,776.
MUNICIPAL.
Comr., Fred Seuder.....West Point

WILBER, 1,219.
MUNICIPAL.
Chmn. Comrs., Joseph Cerny.....Wilber
Treas., Jos. A. Bartos..... "
Sec., Wm. Bohacek..... "
Supt., E. E. Dunder..... "
Engr. P'g. Sta., J. N. Pribyl..... "
Wells, 4 6-in. 90 ft. deep; near center business section; no purification.
Boilers, 2 150-hp. ea. 130 lb. Kenny 1906 & 1912; hand stoking; pump, 1-750,000 gal. hor. duplex d. act. L-D-G 1904; steam engines, 85-hp. Skinner 1914, 110-hp. Murray 1914; pumping to standpipe (1914) 86,000 gal.
Pipe, 2.5 mi. 4 to 8-in. c. i.; hyd. 40, hose con. 2½-in. Tamaqua; valves, 20 l. h. opening, meters, 280 Pittsburgh & Neptune; av. daily cons. 35,000 gal.; serv. con. 280; ord. pres. 50 to 63 lb., fire pres. same.
Rates; meter, min. charge $1.50 quarter 4000 gal., 30c. 1000 gal., 15c. min.

WISNER, 1,081.
MUNICIPAL.
City Clerk, C. S. Beily.....Wisner

WOOD RIVER, 996.
MUNICIPAL ELECTRIC LIGHT & WATER-WORKS.
Pres. Comrs., A. G. Brett.....Wood River
Clerk, P. D. O'Kane..... " "
Treas., W. L. Sprague..... " "
Mgr., J. M. Wiggins..... " "
Supt., J. W. Zook..... " "
Engr. P'g. Sta., Robert Day... " "
Gasoline engine, 50-hp. F. M.

WYMORE, 3,613.
MUNICIPAL.
City Engr., John McCarthy.....Wymore
Springs & wells, 4 20 ft. deep.
Boilers, 2 Burton; pumping to standpipe (1890); hyd. 40; serv. con. 200.

NEVADA

AUSTIN, 700.
AUSTIN WATER CO. Office, Salt Lake City, Utah.
Pres., E. M. Farnsworth....Salt Lake City
V. Pres., Sec. & Treas.,
L. D. Farnsworth..... " " "
Rates; flat, $1 mo., bath 50c., closet 50c.; meter, min. charge $1 mo., $1 1000 gal. max., 75c. min.

CARSON CITY, 2,466.
CARSON WATER CO.
Pres., C. V. Yerington.....Carson City
Secy., E. B. Yerington..... " "
Supt., F. A. Cushing..... " "
Des. Engr., Geo. F. Smith..... " "
Springs & creek; 2¼ mi. from center distribution.
Gravity distribution from reservoirs, 2-2,500,000 gal.
Pipe, 15 mi. 4 to 12-in.; hyd. 26, hose con. 2½-in. Garrett, Crane & Rensselaer; valves, 55 r. h. thd. Crane; meters, 200 Neptune; av. daily cons. 450,000 gal.; serv. con. 750; pres. 85 to 115 lb., fire pres. same.

COLUMBIA, 1000.
Supplied by the Goldfield Consolidated Water Co. See Goldfield.

DIAMONDFIELD.
Supplied by the Goldfield Consolidated Water Co. See Goldfield.

EAST ELY, 500.
Supplied by Ely Water Co. See Ely.

ELKO, 1,650.
ELKO WATER & LIGHT CORPORATION.
Pres., W. T. Smith.....Elko
V. Pres. & Secy., C. B. Henderson..... "
Supt., T. J. Critchley..... "
Springs, infiltration tunnels & wells, 2 10 & 20 ft. in diam. 20 ft. deep; 7 mi. from center distribution; no purification.
Pumps, 1-172,800 gal. Dow; gasoline engines, 12-hp. F. M.; elec. motors, 15-kw. 125 v. a. c. Westg.; pumping to reservoirs, 3-810,000 gal.
Pipe, 10 mi. 4 to 12-in.; hyd. 59, hose con. 2-in. Ludlow; valves, 50 r. & l. h. thd.; meters, 250 Neptune; av. daily cons. 400,000 gal.; serv. con. 560; ord. pres. 30 lb., fire pres. 70 lb.

ELY, 2,055.
ELY WATER COMPANY. Supplies East Ely.
Pres.,
Frank W. Holmes..Mount Vernon, N. Y.
V. Pres., H. A. Gray.....New York, N. Y.
Sec., H. F. Knobloch.....Bayonne, N. J.
Treas., H. E. Dodge.....New York, N. Y.
Gen. Mgr., Arthur Smith.....East Ely
Rates; flat, $1.75 mo., bath 50c., closet 50c.; meter, min. charge $1 mo., 50c. 1000 gal. max., 20c. min.

EUREKA, 785.
EUREKA WATERWORKS. (Privately owned.)
Supt., M. F. Fletcher.....Eureka..
Rates, flat, $1 to $3 mo.

FALLON, 741.
MUNICIPAL.
Mayor, Geo. E. Sherman.....Fallon
City Clerk, W. A. Reavis..... "
Supt., L. W. Crehore..... "
Wells, 4 5-in. 26 ft. deep; one mi. from center business section; no purification.
Pumps, 1-300,000 gal. triplex Deane 1912 geared to elec. motor, 25-hp. 220 v. 3 ph. 60 cys. Western 1912, 1-180,000 gal. triplex Deane 1912 clutch con. to oil engine, 25-hp. F. N. 1912; elec. energy from municipal system; pumping to elev. tank (1912) 200,000 gal. concrete, Western Engrg. & Water Supply Co.
Pipe, 6 mi. 4 to 10-in wood; hyd. 60, hose con. 2½-in. Rensselaer; valves, 31 l. h. opening Crane; meter, 192 Neptune; av. daily cons. 65,170 gal. 91%; serv. con. 192; ord. pres. 30 to 40 lb., fire pres. 100 lb.
Rates; all meter, min. charge $1 mo. 400 cu. ft., 25c. 100 cu. ft. max., 5c. min.

GOLDFIELD, 4,838.
THE GOLDFIELD CONSOLIDATED WATER COMPANY. Supplies Columbia & Diamondfield.
Pres., T. B. Rickey.....Berkeley, Cal.
V. Pres., L. V. Curtis.....Denver, Colo.
Sec., Treas., & Gen. Mgr.,
C. B. Patrick.....Goldfield
Rates; flat, $4 mo.; meter, 75c. gal. max., 3c. min.

HAWTHORNE, 600.
HAWTHORNE WATERWORKS. (Privately owned.)
Pres., John F. Cannon..San Francisco, Cal.
V. Pres., Geo. T. Mills...Carson City, Nev.
Sec. & Treas.,
E. B. Yerington..... " " "
Supt., V. P. Stannard.....Hawthorne
Rates; flat, $1 mo.

LAS VEGAS, 1,275.
LAS VEGAS LAND & WATER CO.
Pres., H. V. Nutt.....Las Vegas
V. Pres., W. R. Packen..... " "
Sec., W. H. Comstock..... " "
Treas., W. H. Leete..... " "
Springs; gravity distribution; pipe, 9 mi. 3 to 18-in.; hyd. 45, hose con. 2½-in.
Rates; flat, $1.15 mo., bath 25c., closet 25c.; meter, 12.5c. cu. ft. max., 10c. min.

MANHATTAN, 825.
MANHATTAN WATER CO.
Owner & Supt., Jos. E. Connor..Manhattan
Owner, M. E. Wilson..... "
Wells, 3 55 & 70 ft. deep; reservoir, 60,000 gal.; no purification.

Pumps, 3-60,000 gal.; gasoline engines, 2 3 & 5-hp. F. M. & elec. motors, 5-hp. 414 v. s. ph. Wagner, two 3-hp. ea. 220 v. 3 ph. 60 cys.; pumping direct and to elev. tanks, 2-500,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd, hose con. 1½-in.; meters, 120; av. daily cons. 20,000 gal.; serv. con. 148; ord. pres. 40 to 60 lb., fire pres. 120 lb.

Rates; flat, min. $2.50; meters, 75c. 100 gal. max., 31.5c. min.

PIOCHE, 600.

CONSOLIDATED NEVADA-UTAH CORPORATION. Office, 40 Cedar St., New York, N. Y. (Owned jointly by town and Consolidated Nevada-Utah Corporation.)

Supt., H. R. Van Wagenen.....Pioche

Springs in Highland Range; 7 mi. from center business section; no purification; gravity distribution from tanks, 5-130,000 gal.

Pipe, 7 mi. 5-in. c. i.; hyd. 10; av. daily cons. 55,000 gal. 100%; serv. con. 200; ord. pres. 65 to 125 lb., fire pres. same.

Rates; flat, $3 mo.

RENO, 10,867.

RENO POWER, LIGHT & WATER CO. (Controlled by Sierra-Pacific Elec. Co.)

Pres., Chas. W. Gardner., San Francisco, Cal.
V. Pres.,
Chas. H. Hammon... " " "
Sec., A. L. Dahl..... " " "
Mgr., Geo. A. Campbell.....Reno
Treas., Henry D. Sawyer....Boston, Mass.
Asst. Treas., S. J. Gannon.....Reno

Water-turbines, 3600-hp. Allis-C; rates; flat, $2 mo., closet 50c.

SPARKS, 2,500.

Supplied by Reno Power, Light & Water Co. See Reno.

TONOPAH, 3,900.

WATER COMPANY OF TONOPAH. (Controlled by National Properties Co. Office, 15 Wall St., New York.)

Pres., Van Horn Ely.....Pittsburgh
V. Pres., E. G. Wheeler...New York, N. Y.
Sec., H. F. MacNamara... " " " "
Treas., D. N. Busch..... " " " "
Gen. Mgr., Fred Burnham.....Tonopah

Rates; meter, min. charge $2.50 mo. 770 gal., $3.25 1000 gal. max., $1.50 min.

WADSWORTH, 1,309.

WADSWORTH LIGHT & POWER CO.

Pres., H. W. Esden.....Wadsworth
Sec., C. A. Mack.....Reno
Gen. Mgr., & Pur. Agt.,
H. W. Esden.....Wadsworth

Truckee River; ½ mi. from center business section; impounding reservoir, 4,000,-000 gal.; no purification.

Pumps, 1-1,584,000 gal. hor. centrifugal Richards 1899 driven by water-turbine, 70-hp. Leffel.

Pipe, 3 mi. 4 to 11-in. riveted steel; ord. pres. 14 lb., fire pres. same.

WINNEMUCCA, 1,275.

WINNEMUCCA WATER & LIGHT CO.

Pres., L. Michaels.....San Francisco, Cal.
Sec., E. Reinhard.....Winnemucca
Treas., M. Reinhard..... "
Mgr., W. L. Akin..... "
Engr. P'g. Sta., E. N. Capurro. "

Boiler, 420-hp. Sterling; water-turbine, 150 hp. Pelton.

Rates: meter. min charge, $2.50 mo., 15c. 1000 gal. max., 10c. min.

NEW HAMPSHIRE

ALTON, 1,348.
ALTON & ALTON BAY WATER CO.
Pres., F. J. Cushing.....Tampa, Fla.
Sec., C. H. Dorning.....Alton Bay
Gen. Mgr. & Pur. Agt., H. J. Jones " "
Springs and lake; 1.5 mi. from center distribution; reservoir, 1-500,000 gal.; no purification.
Boilers, 36-hp. 65 lb. Cushing 1895; pump, 1-500,000 gal. hor. comp. d. act. Blake 1895; pumping to reservoir, above.
Pipe, 4 mi. 4 to 8-in. c i.; hyd. 26, hose con. 2½-in. R.D.W.; valves, 10 r. h. opening; meters, 29 National; serv. con. 120; ord. pres. 100 to 120 lb., fire pres. same.
Rates: flat, $6 a year; meter, min. charge $10 a year, 30c. 1000 lb. max., 25c. min

ANTRIM, 1,235.
MUNICIPAL.
Chmn. Comrs., J. T. Patterson.....Antrim
Comr., Frank Ellenwood..... "
City Clerk, G. Hastings..... "
Supt., Geo. W. Hunt..... "
Campbell Lake; 4 mi. from center of business section; no purification.
Gravity distribution; pipe, 4 mi. 8-in. wood; hyd. 27, hose con. 2½-in.; serv. con. 300; ord. pres. 96 lb.
Rates: flat, $8 a year, bath $3, closet $3.

ASHLAND, 1,412.
MUNICIPAL.
Supt., E. W. Sanborn.....Ashland
Pond, 3 mi. from center of business section; gravity distribution from reservoir, 257,000,000 gal.
Pipe, 5 mi. 10-in. c. i.; hyd. 47, hose con. 2½-in. Ludlow; valves, 50 1. h. opening Ludlow; meters, 5; serv. con. 265; ord. pres. 120 lb., fire pres. same.
Rates: flat, $6, a year, bath $2, closet $2.50; meter, 20c. 1000 gal.

AUBURN, 637.
AUBURN WATERWORKS. (Privately owned.)
Supt., W. H. Griffin.....Auburn
Wells, 2 12ft. in diam. 16ft. deep; no purification; gravity distribution; serv. con. 6; ord. pres. 15 lb.
Rates: flat $5 a year.

BATH, 978.
BATH VILLAGE WATER CO.
Supt., M. P. Conant.....Bath
Spring; one mi. from center of business section; no purification, gravity distribution from reservoir, 3500 gal.
Pipe, 1.5 mi. one to 4-in. galv. iron; valves, 3 r. h. opening Jenkins; serv. con. 26; ord. pres. 62 to 85 lb.
Rates: flat $1 mo., bath 25c. closet 25c.

BENNINGTON, 690.
BENNINGTON WATER WORKS CO.
Pres. & Treas.,
Robert L. Manning.....Manchester
Springs; reservoirs, 2.

BERLIN, 11,780.
BERLIN WATER CO.
Mgr., E. P. Gerrish.....Berlin
Engr., W. M. Gooding..... "
Androscoggin River & impounding reservoirs, 7,300,000 gal.; 2 mi. from center distribution; mechanical filters; chemical, hypochlorite of lime.
Pumps, 1-2,160,000 gal. D'Olier; gravity distribution, pumping direct & to elev. tank (1914) 20,000 gal. wood.
Pipe, 8.7 mi. 4 to 12-in. c. i.; hyd. 76, hose con. 2½-in. Ludlow & R.D.W.; valves, 175 l. h. opening various; meters, 250 various; av. daily cons. 1,200,000 gal.; serv. con. 1400; ord. pres. 10 to 110 lb.

BRISTOL, 1,478.
BRISTOL AQUEDUCT CO.
Pres., Karl G. Cavis.....Bristol
Sec. & Treas., Raymond Cavis..... "
Supt., S. D. Fellows..... "
Newfound Lake; 2.5 mi. from center business section; no purification; gravity distribution.
Pipe, 6.5 mi. 4 to 20-in. c. i. & wood; hyd. 35, hose con. 2½-in. Chapman & R.D.W.; valves, 34; meters, none; serv. con. 260; ord. pres. 55 lb., fire pres. same.

CLAREMONT, 7,529.
MUNICIPAL.
Chmn. Comrs., D. R. Rays.....Claremont
Sec. Comrs., H. C. Sunders..... "
Treas., O. Bugbee..... "
Supt., James L. Rice..... "
Impounding reservoirs, 4-70,000,000 gal. & wells, 6 3½ ft. in diam. 14 ft. deep; no purification.
Boilers, tubular 110-hp. 80 lb. Mumford; hand stoking; pump, 1-1,000,000 gal. hor. single d. act. Blake 1905; pumping to reservoirs, 2-4,000,000 gal.
Pipe, 25 mi. 4 to 20-in. c. i. & cement; hyd. 128, hose con. 2½-in. Ludlow & Coffin; valves, 313 1. h. opening Ludlow & Coffin; meters, 747 various; av. daily cons. 500,000 gal.; serv. con. 1210; ord. pres. 40 to 140 lb., fire pres. same.
Rates: flat, $6 a year, bath $2.50, closet $3; meter, min. charge $12 year 60,000 gal., 15c. 100 cu. ft.

CHARLESTOWN, 1,496.
MUNICIPAL.
Comr., A. H. Streeter.....Charlestown
" O. C. Young..... "
" R. R. Finn..... "
Town Clerk, F. H. Perry..... "
Brook & springs; 2 mi. from center distribution.
Gravity distribution from reservoir, 2,000,000 gal.; hyd. 50, hose con. 3-in.; ord. pres. 100 lb., fire pres. same.

CONCORD, 21,497.
MUNICIPAL.
Pres. S. A. Carter.....Concord

Clerk, E. J. Hill.....Concord
Supt., P. R. Sanders..... "
Engr. P'g. Sta., H. A. Rowell..... "

Penacook Lake, 1,488,000 gal.; 3.5 mi. from center distribution; no purification.

Boilers, 2 hor. 75-hp. ea. Worth.; hand stoking; pumps, 2-2,000,000 gal. ea. tri. exp. Worth.; gravity distribution & pumping to reservoir, 2,000,000 gal.

Pipe, 67 mi. 4 to 30-in. c. i. & cement lined; hyd. 436, hose con. 2½-in. various; valves, 1021 r. h. opening Ludlow, Rensselaer & Chapman; meters, 2318 various; serv. con. 3830; ord. pres. 48 lb., fire pres. 88 lb.

CRANBURY, 800.

THE CRANBURY WATER CO.
Pres. & Supt., Geo. B. Mershon.....Dover
Secy., S. H. Perrine..... "
Treas., A. R. Vorhees..... "

Artesian wells, 8-in. 264 ft. deep; at center distribution; chemical, lime.

Pumps, 2-394,500 gal. Deane & Deming belted to gasoline engines, 2 10 & 15-hp. Otto & Backus; pumping to elev. tank, 40,000 gal. wood & steel.

Pipe, 1.82 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 2½-in. R.D.W.; meters, 94 Neptune; av. daily cons. 22,000 gal.; serv. con. 114; ord. pres. 45 to 55 lb., fire pres. same.

Rates: flat, $10 year; meters, $15 30,000 gal.

DERRY, 5,123.

MUNICIPAL.
Chmn. Comrs., Wm. Neller.....Derry
Comr., Wm. T. Morse..... "
" M. J. Casserdy..... "
Supt., G. H. Bean..... "

Wells, 5 tubular 12 to 16-in. 14 ft. deep; ½ mi. from center business section; no purification.

Boilers, 2 hor. tubular 87-hp. ea. 125 lb. Robb 1906 & 1915; hand stoking; pumps, 2-700,000 gal. hor. comp. d. act. Knowles 1890; pumping to standpipe (1890) 185-000 gal.

Pipe, 9 mi. 4 to 10-in c. i.; hyd. 65, hose con. 2½ & 4-in. Coffin & Rensselaer; valves, 48 l. h. opening; meters, 400 National; av. daily cons. 200,000 gal.; serv. con. 800; ord. pres. 40 to 100 lb. fire pres. same.

Rates: flat, $6 a year, bath $2 closet $2; meter, min. charge $10 a year 4000 cu. ft, 25c. 100 cu. ft. max., 13.5c. min.

DOVER, 13,247.

MUNICIPAL.
Mayor, Charles H. Foss.....Dover
Comr., Andrew Killoren..... "
" H. Foster Elder..... "
" Gerald Scarr..... "
" Chas. A Davis..... "
Supt., Henry E. Perry..... "

William Pond, springs & artesian wells, 2 8-in. 300 & 350 ft. deep; one mi. from center distribution; settling basin, 57 x 57 x 8.5 ft.; slow sand filters, 2-2,000,000 gal. ea.; chemicals, none.

Boilers, 2 tubular 100-hp. ea. Blake; hand stoking; pumps, 1-2,000,000 gal. motor driven De Laval, 1-2,000,000 gal. comp. duplex Blake; elec. motors, 7460 kw. 550v. 3 ph. 60 cys. G. E.; elec. energy from Twin States Gas & Elec. Co.; pumping to reservoir, 2,185,453 gal.

Pipe, 28.41 mi. 4 to 16-in. c. i.; hyd. 220, hose con. 2½-in. Ludlow; valves, 273 l. h. thd. Eddy; meters, 1496 mostly Thomson; av. daily cons. 410,000 gal.; serv. con. 1962; ord. pres. 62 to 110 lb., fire pres. same.

Rates: flat, $6 year, bath $5, closets $5; meter, min. charge $10 year, 22.5c. 100 cu. ft. max. 15c. min.

ENFIELD, 1,448.

MUNICIPAL.
Chmn. Comrs., W. A. Wilmot.....Enfield
Comr., C. G. Walker..... "
" Fred Noyes..... "
Treas., A. G. Amsden..... "

Springs & impounding reservoir, 18,000,-000 gal.; 2 mi. from center business section; no purification.

Gravity distribution; pipe, 6 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 4-in. Eureka; valves, 4 r. h. opening; av. daily cons. 50,000 gal. 30%; serv. con. 72; ord. pres. 68 lb., fire pres. same.

Rates: flat, $12 a year including bath & closet.

GLEN, 130.

GLEN WATER CO.
Pres O. S. Lucy.....Glen
Sec., J. F. Robinson..... "

Springs; gravity distribution; pipe, 2 mi. 2-in. galv. iron.

Rates: flat, $2.50 quarter, $10 year including bath & closet.

GORHAM, 3,155.

MUNICIPAL.
Comr., A. L. Burbank.....Gorham
" C. C. Libby..... "
Supt., T. H. McHugh..... "

Ice Gulch Brook; 4 mi. from center distribution.

Gravity distribution from reservoir, 1,500,-000 gal. various.

Pipe, 8 mi. 4 to 12-in. c. i. & steel; hyd. 47, hose con. 2½-in. Pratt & Cady; valves, 60 r. h. thd. Pratt & Cady; serv. con 300; pres. 90 to 130 lb., fire pres. same.

HANOVER, 1,340.

MUNICIPAL. HANOVER WATERWORKS CO. Owned by Village Precinct & Dartmouth College.
Pres. & Engr., Robert Fletcher....Hanover
Asst. Engr., E. T. Ford..... "
Treas., P. R. Bugbee..... "
Supt., Ed P. Stows..... "

Impounding reservoir, 135,000,000 gal.; 2½ mi. from center distribution; no purification.

Gravity distribution; pipe, 10 mi. 4 to 12-in. c. i.; hyd. 54, hose con. 2½-in R. D.W. & Kennedy; valves, l. h. opening

R.D.W.; meters, 16 various; av. daily cons. 400,000 gal.; serv. con. 390; ord. pres. 55 to 110 lb., fire pres. same.

HENNIKER, 1,395.

MUNICIPAL.

Chmn. Comrs. E. N. Cogswell...Henniker
Comr., A. E. Choate..... "
" Edward Connelly..... "
" H. L. Holmes..... "
Sec. H. W. Balch..... "
Cons. Engr., William [illegible]on
101 Tre[illegible] Boston Mass.

Springs and well [illegible] n diam. 25 ft. deep; ½ mi. from [illegible]siness section.

Pump, 1-300.00 [illegible]rt triplex Rumsey 1914 d. con. t[illegible] [illegible]gine, 18-hp. Mietz & Weiss 1914; pump [illegible] reservoir, 300.000 gal.

Pipe, 6.5 mi. 6 to 10-in. c. i.; hyd. 51, hose con. 2½-in. Kennedy; valves, 38 l. h. opening Kennedy; serv. con. 200; ord. pres. 75 to 100 lb.

Rates: flat $6 year, bath $3, closet $3.

HILL, 556.

HILL WATER WORKS. (Privately owned.)

Supt., F R. Woodward.....Hill

Spring & Brook; ½ mi. from center business section; slow sand filters.

Gravity distribution; pipe, 1.5 mi. 4 & 6-in. c. i. & cement; hyd. 6, serv. con. 74 ord. pres. 47 lb.

Rates: flat, $5 year, bath $5, closet $5.

HILLSBORO, 2,168.

MUNICIPAL.

Supt., W. O. Story.....Hillsboro

Loon Lake; four miles from center distribution.

Gravity distribution from reservoir, 500,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i. & cement lined; hyd. 45, hose con. 2½-in. Chapman; valves, Chapman; meters, none; av. daily cons. 150,000 gal.; serv. con. 410; ord. pres. 70 lb., fire pres. same.

JAFFREY, 1,895.

MUNICIPAL.

Chmn. Comrs., C. L. Rich.....Jaffrey
Comr., Wilbur E. Webster..... "
" Edw C. Boynton..... "

Bullet Lake; gravity distribution; hyd. 68; serv. con. 325.

Rates: flat, $6 year, bath $2, closet $3.

KEENE, 10,068.

MUNICIPAL.

Supt., P. F. Babbidge.....Keene

Echo & Sylvan Lakes; 3 & 7 mi. from center business section; gravity distribution

Pipe, 47 mi. 4 to 12-in. c. i.; hyd 311, hose con. 2½-in. Ludlow & R.D.W.; valves, 501 r. h. opening Ludlow & Eddy; meters, 720 Union; serv con. 2232; ord. pres. 25 to 90 lb., fire pres. same.

Rates: meter, min. charge $4 year, 20c. 100 cu. ft. max., 2.5c. min.

LANCASTER, 3,054.

MUNICIPAL.

Chmn. Comrs., W. E. Bullard....Lancaster
Comr., John McIntire..... "
" Elwyn Damon..... "
Sec., R. J. Brown..... "
Supt., Jas. Carr..... "

Impounding reservoir on Mountain Brook, 2,000,000 gal.; 5.5 mi. from center business section; no purification.

Gravity distribution; pipe, 5 mi. 6 to 12-in. c. i.; hyd. 60, hose con. 2½-in. Ludlow; ord. pres. 20 to 85 lb., fire pres. same.

Rates: flat, $6 year, bath $1.50, closet $2.25.

LEBANON, 5,719.

MUNICIPAL.

Comr. & Supt., C. E. Lewis.....Lebanon
" C. D. Smith..... "
" S. N. Payette..... "

Mascoma River; one mi. from center distribution; mechanical filters, 1,000,000 gal.; chemical, sulphate of alumina.

Boilers, locomotive 75-hp.; hand stoking; pumps, 1-750,000 gal. steam Deane, 1-750,000 gal. power Lang, 1-1,250,000 gal. power L-D-G; pumping to reservoir, 1,000,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 77, hose con. 2½-in. Ludlow; valves, 23 l. h. thd. Ludlow; meters, 275 mostly National; av. daily cons. 200,000 gal.; serv. con. 700; ord. pres. 75 to 147 lb., fire pres. same.

Rates: flat, $5 year, bath $3, closet $2; meter, min. charge $2.50 6-mo. 10,000 gal., $2.00 2d. 10,000 gal., 12.5c. 1000 gal.

LISBON, 2,460.

LISBON WATER WORKS CO.

Pres., H. B. Moulton.....Lisbon
Sec. & Treas., E. H. Hallett..... "
Gen. Mgr. & Pur. Agt.,
W. L. Chamberlin..... "

Pearl Lake; reservoir, 1,000,000 gal.; 1.5 mi. from center business section; no purification.

Gravity distribution; pipe, 6 mi. 4 to 8-in. c. i. & cement; hyd. 43, hose con. 2½-in.; valves, 28 r. h. opening; av. daily cons. 500,000 gal.; ord. pres. 50 to 100 lb., fire pres. same.

Rates: flat, $15 year including bath & closet; meter, 10c. 1000 gal.

MANCHESTER, 70,063.

MUNICIPAL.

Supt., James H. Mendell.....Manchester

Massabesic River; 4 mi. from center distribution.

Boilers, 4 vert. 900-hp. Bigelow; hand stoking; pumps, 6-26,000,000 gal. R.D.W., Davidson, De Laval, Snow, 2 Worth.; pumping to reservoirs, 2-19,000,000 gal.

Pipe, 135 mi. 4 to 24-in. c. i.; hyd. 970, hose con. 3¼-in. various; valves, 1329 l. h. thd. various; meters, 5952 various; av. daily cons. 5,000,000 gal.; serv. con. 7766.

Rates: flat, $4 year, bath $1.75, closet

$2; meters, min. charge $8 year, 10c. 100 cu. ft. max., 7c. min.

MEREDITH, 1,638.

MUNICIPAL. (Owned by the Meredith Fire Department.)

Pres. Comrs., James Wilcox.....Meredith
Sec., S. M. Eagles..... "
Supt., A. S. Clough..... "

Springs & brooks, 1.75 mi. from center business section; gravity distribution from reservoir, 1-10,000,000 gal.

Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 50, hose con. 2½-in. Ludlow; serv. con. 200; ord. pres. 75 to 115 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $2; meter, min. charge $10 a year.

MILFORD, 3,939.

MUNICIPAL.

Pres., F. P. Fisk.....Milford
Clerk, J. A. Brahoney..... "
Comr., D. J. Murphy..... "
Supt., Frank B. Wilkins..... "

Wells, 25 & 45 ft. in diam. 15 to 30 ft. deep; ¾ mi. from center distribution.

Boilers, 3 hor. 30-hp. Roberts; pumps, 2-500,000 gal. Davidson; standpipe (1889) iron.

Pipe, 7 mi. 4 to 10-in.; hyd. 80, hose con. 2½-in. Rensselaer, Chapman & Walker; valves, Rensselaer & Chapman; meters, 270 various; av. daily cons. 150,000 gal.; serv. con. 590; ord. pres. 35 lb., fire pres. same.

Rates: flat, $6 year; meters, min. charge $16 year 40,000 gal.

NASHUA, 26,005.

MUNICIPAL.

Pres. Comrs., John F. Stark.....Nashua
Treas., Harry M. Hobson..... "
Supt., Wm. F. Sullivan..... "
Ch. Engr. P'g. Sta.,
Robt. Campbell..... "

Wells, 30 2½ & 6-in. 25 & 50 ft. deep; 3 mi. from center distribution.

Boilers, 4 hor. 500-hp. Roberts & Kendall; hand stoking; pumps, 5-22,000,000 gal. Snow, Worth., Deane, Holly & De Laval; elec. motors, 35-hp. 2200 v. 3 ph. 60 cys. De Laval; the Deane & Holly pumps are driven by water power; elec. energy from generators driven by water turbines; pumping direct & to reservoir, 4,000,000 gal.

Pipe. 54 mi. 4 to 30-in. c. i.; hyd. 325, hose con. 2½-in. Thomson & Ludlow; valves, 550 l. h. thd. Chapman, Ludlow & Rensselaer; meters, 1169 various; av. daily cons. 2,500,000 gal.; serv. con. 2948; ord. pres. 22 to 100 lb.

Rates: flat, $6 year, bath & closets $10; meters, 3c. 1000 gal. max., 9c. min.

NEW LONDON, 805.

NEW LONDON WATERWORKS. (Privately owned.)

Supt., Charles E. Shepard....New London

Artesian well, 8-in. 360 ft. deep; ¼ mi. from center business section; pumps driven by steam turbines, 5-hp. hor. Abenaque 1911 & gas engine; pumping to reservoir, 300,000 gal.

Pipe, 2 mi. one to 3-in. galv. iron.

Rates: flat, $5.50 year.

NEWPORT, 3,765.

MUNICIPAL.

Chmn. Comrs., F. E. Brochway.Newport
Supt., D. J. Mooney..... "
Sec., D. J. Mooney..... "
Treas., T. L. Barker..... "

Gilman Lake; 5.5 mi. from center business section; no purification; gravity distribution from reservoir, 700,000 gal.

Pipe, 20.25 mi. 4 to 12-in. c. i.; hyd. 89; valves, 124 r. h. opening Ludlow; meters, 4; av. daily cons. 275,000 gal.; serv. con. 655; ord. pres. 25 to 140 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $3; meter, min. charge $12 year 30,000 gal., 25c. 1000 gal. max., 13.5 c.min.

NORTH HAVERHILL, 650.

NORTH HAVERHILL WATER CO.

Gen. Mgr., E. B. Willoughby
North Haverhill

Springs, 4; no purification, gravity distribution; pipe, 2 mi. 1½-in. lead.

Rates: flat, $8 year.

NORTH STRATFORD, *800.

COOS & ESSEX WATER CO.

Pres., G. E. Magoon.....Lancaster
Sec., S. H. Hutchins.....North Stratford
Gen. Mgr., Treas. & Pur. Agt.,
J. C. Hutchins.....North Stratford

Springs. 1.5 mi. from center business section; reservoir, 700,000 gal.; no purification; gravity distribution.

Pipe, 4 mi. 2 & 4-in. c. i.; hyd. one, hose con. 2½-in.; av. daily cons. 75,000 gal.; serv. con. 110; ord. pres. 50 to 60 lb., fire pres. same.

Rates: flat, $12 year, closet $3.

PENACOOK, 2,500.

PENACOOK & BOSCAWEN WATER PRECINCT.

Treas., G. D. Colby.....Penacook

Lake Walker; no purification; gravity distribution.

Pipe, 13 mi. 4 to 12-in. wood; hyd. 45, hose con. 3-in. R.D.W.; valves, 41 r. h. opening; ord. pres. 70 to 85 lb., fire pres. same.

Rates: flat, $5 year, bath $1.50, closet, $1.50.

PETERBORO, 2,277.

MUNICIPAL.

Comr., A. J. Walbridge.....Peterboro
" C. K. Weeks..... "
" E. W. Jones..... "

Brook & ponds; 2½-mi. from center distribution.

Gravity distribution from reservoir, 1,000,000 gal.

Pipe, 10 mi. 4 to 12-in.; hyd. 76, hose on. 2½-in. Ludlow; valves, 60 l. h. thd. Lud-

low; meters, 60 National, Neptune & Pittsburgh; serv. con. 347; ord. pres. 60 to 120 lb., fire pres. same.

Rates: flat, $6 year; meters, min. charge $15 40,000 gal.

RANDOLPH, 137.

MOUNT CRESCENT WATER CO.

Pres., R. H. Richards
32 Eliot St., Jamaica Plain, Mass.
Clerk, A. L. Hunt.....Randolph

Impounding reservoir & Wilcox Brook, 1-20,000 gal.; one mi. from center business section; no purification; gravity distribution.

Pipe, 2.5 mi. 2 & 3-in. galv. iron; valves, 5 r. h. opening Walworth; meters, none; serv. con. 25; ord. pres. 100 to 150 lb.

Rates: flat, $20 year.

SALEM, 2,117.

MUNICIPAL.

Supt. & Comr., W. E. Lancaster.....Salem
Comr., Chas. H. Borchers..... "
" Ambrose M. Turner..... "

Canobie Lake; 3 mi. from center distribution.

Gravity distribution; hyd. 52, hose con. 2½-in. various; valves, 10; meters, 2 National; serv. con. 270; ord. pres. 20 to 45 lb.

SUNAPEE, 1,071.

MUNICIPAL.

Chmn. Comrs., Stanley E. Osborne. Sunapee
Comr., Fred. M. Sargent..... "
" C. L. Russell..... "
Supt. & Engr. P'g. Sta.,
S. E. Osborne..... "

Sunapee Lake & wells, 60 15-in.; 1.4 mi. from center business section; reservoir, 300,000 gal.; no purification.

Pumps, 1-90,000 gal. vert. triplex Rumsey 1900 belted to water wheel, 1-120,000 gal. vert. triplex Deane 1914 belted to elec. motor, 20-hp. 220 v. 3 ph. 60 cys. G. E. 1914; elec. energy from Newport Electric Light & Power Co.; pumping direct.

Pipe, 10 mi. 2 to 12-in. c. i.; hyd. 40, hose con. 2½-in. Ludlow; valves, 20 l. h. opening Ludlow; av. daily cons. 75,000 gal.; serv. con. 120; ord. pres. 80 to 120 lb., fire pres. same.

Rates: flat, $12 year including bath & closet.

SUNCOOK, 2,800.

MUNICIPAL.

City Clerk, F. W. Saltmarsh.....Suncook

Pond and impounding reservoir, 200,000 gal.; no purification.

WALPOLE, 2,668.

WALPOLE WATER & SEWER CO.

Pres., W. L. Mason .....Keene, N. H.
Treas., F. D. Rodenbush.....Walpole
Supt., W. D. Knowlton..... "

Mad Brook; well, 300 ft. deep & impounding reservoir, 4,500,000 gal.; 3 mi. from center distribution; slow sand filter.

Pumps driven by elec. motor, 5-hp. 3 ph. F. M.; elec. energy from Fall Mountain Elec. Lt. & Power Co., Bellows Falls, Vt.; gravity distribution from reservoir 250,000 gal.

Hyd. 21; meters, 158 Nat'l.; serv. con. 160; ord. pres. 60 to 124 lb.

WOLFBORO, 2,224.

MUNICIPAL.

Chmn. Comrs., W. A. Bixby.....Wolfboro

Beach Pond; 4½-mi. from center distribution.

Gravity distribution from reservoir, 300,000 gal.

Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 55, hose con. 2½-in.; meters, 15 Neptune; av. daily cons. 800,000 gal.; serv. con. 500; ord. pres. 105 to 115 lb., fire pres. same.

WOODSVILLE, 1800.

WOODSVILLE AQUEDUCT CO.

Pres., E. B. Mann.....Woodsville
Treas., C. C. Rinehart..... "
Supt., Geo. E. Cummings..... "
Engr. P'g. Sta., Geo. E. Mann.. "

Ammonoosuc River; ¼ mi. from center distribution; slow sand filter; chemical, liquid chlorine.

Boiler, hor. return tubular 130-hp. Phoenix; hand stoking; pumps, 2-1,440,000 gal. ea. Blake & Lang; pumping direct.

Pipe, 3.5 mi. 4 to 12-in. c. i.; hyd. 30. hose con. 2½-in. R.D.W.; valves, 16 l. h thd. R.D.W.; av. daily cons. 450,000 gal. serv. con. 310; ord. pres. 65 to 80 lb., fire pres. 100 to 120 lb.

Rates: flat. $8 year, bath $2, closets $3.

NEW JERSEY

ACQUACKANONK TOWNSHIP.

YANTACAW WATER CO.

Pres., Farley Osgood.....Acquackanonk
Treas., A. J. Van Brunt,
264 Summer Ave., Newark, N. J.

Artesian well, 10-in. 185 ft. deep; near center distribution; no purification.

Pumps driven by gasoline engine, 5-hp. F. M.; pumping to elev. tank, 12,500 gal. wood.

Av. daily cons. 13,000 gal.; serv. con. 70. Rates; flat, $2 mo.

ABSECON, 781.

Supplied by Pleasantville Water Co. See Pleasantville.

ALLENDALE, 937.

Supplied by Ramsey.

ALLENHURST, 306.

MUNICIPAL.

Supt., C. H. Havens.....Allenhurst

Artesian wells, 500 to 600 ft. deep; coagulating basin, 67,000 gal.; mechanical filters, 2 N. Y. C. Jewell; chemical, lime.

Air lifts; gravity distribution; av. daily cons. 300,000 gal. summer, 50,000 gal. winter.

ALLENTOWN, 634.

MUNICIPAL.

Supt., Chas. F. Joiner.....Allentown
Engr. P'g. Sta.,
Frank A. Steinbach..... "

Springs; ½ mi. from center distribution; coagulating basin, 35,000 gal.; slow sand filter, 20,000 gal.; chemicals, none.

Pumps driven by gasoline engine, 2 60-hp. Nash.; pumping to standpipe.

Pipe, 6 mi. 4 to 12-in.; hyd. 25, hose con. 3-in.; meters, 2 National; av. daily cons. 30,000 gal.; serv. con. 150; ord. pres. 55 lb., fire pres. 150 lb.

ASBURY PARK, 10,150.

MUNICIPAL. Department of Water & Sewers.

Supt., Robert Bartley, Jr.....Asbury Park
City Engr., H. L. Baumgartner " "

Wells, 8 tubular 4 & 6-in. 600 to 1150 ft. deep; one mi. from center business section; settling & coagulating basins, 205,000 gal.; mechanical filters, 2,000,000 gal.

Boilers, 3 marine 200-hp. ea.; pumps, 1-1,500,000 gal. Deane, 1-2,500,000 gal. Worthington; pumping to standpipe, steel.

Hyd., 100, hose con. 2½ & 4½-in. Rensselaer, Coffin & Union; valves, 72 r. h. thd. various; meters, 1600 mostly Thompson; av. daily cons. 800,000 gal.; serv. con. 1600; ord. pres. 55 lb., fire pres. same.

Rates; meter, min. charge $6 year, $1.50 1000 cu. ft.

MONMOUTH COUNTY WATER CO.

Supplies territory adjacent to Asbury Park. (Controlled by American Pipe & Construction Co., 112 North Broad St., Philadelphia, Pa. For executive officers see Philadelphia.)

Wells, 4 tubular 6 to 10-in. 588 to 1,000 ft. deep; filtration.

Boilers, 3 40-hp. ea. & 1 75-hp.; pumps, 1-1,000,000 gal. driven by steam engine; gasoline engine, 14-hp.; gas engines, 2; pumping to reservoirs, 2-3,700,000 gal. & standpipe, 210,000 gal.

Pipe, 37.5 mi. 4 to 16-in.; hyd. 137; valves, 430; meters, 3697; av. daily cons. 709,000 gal.; serv. con. 3896; ord. pres. 40 to 60 lb.

ATLANTIC CITY, 46,150.

MUNICIPAL.

Comr., Harry Bacharach.....Atlantic City
Ch. Clerk, Stanley B. Johnson " "
Supt., Lincoln Van Gilder.... " "
Cons. Engrs., T. C. Hatton,
& J. L. Ferebee..... " "
Ch. Engr., P'g. Sta.,
F. J. Trumbore..... " "

Absecon Creek, wells, 24 artesian 10-in. 100 to 200 ft. deep & impounding reservoir, 80,000,000 gal.; 8 mi. from center distribution; no purification.

Boilers, 6 water-tube 1250-hp. Nat'l., Keeler & Heine; hand stoking; pumps, 5 34,000,000 gal. Gordon, D'Auria, De Laval, Worth. & Bethlehem; elec. motors, 120 kw. 480 v. 3 hp. 60 cys. Ft. Wayne; pumping direct & to standpipes (1882, 1888) steel.

Pipe, 82 mi. 4 to 24-in. c. i., hyd. 864, hose con. 2½-in. Rensselaer, R. D. W. & Ludlow; valves, r. & l. h. thd. various; meters, 659 various; av. daily cons. 9,000,000 gal.; serv. con. 7000; ord. pres. 40 to 50 lb., fire pres. same.

Rates; meter, 12c. 1000 gal.

ATLANTIC HIGHLANDS, 1,645.

MUNICIPAL.

Chmn., Comrs.,
J. B.Flitcroft..... Atlantic Highlands
Supt., E. Doughty..... " "

Wells, 8 artesian 110 to 450 ft. deep; mechanical filters, filtering area 8859 sq. ft.

Pumping with air lifts; pumping to standpipes, 2; av. daily cons. 150,000 gal.

AUDUBON, 1,343.

Supplied by Haddonfield Water Co. See Haddonfield.

AVON, 426.

Supplied by Monmouth Water Co. See Asbury Park.

BARNEGAT, 1,019.

BARNEGAT WATER CO.

Pres., Geo. W. Hollingsworth....Barnegat
Sec., Treas. & Supt., A. W. Kelley "
Cons. Engr., A. L. Ware..... "
Ch. Engr. P'g. Sta., S. J. Gaskell. "

Artesian well, 150 ft. deep; at center distribution; no purification.

Pump, 1-432,000 gal. Deming driven by gasoline engine, 15-hp. Otto; pumping to elev. tank, 50,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in. Pratt & Cady; valves, 20 Pratt & Cady; meters, 15 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 45 to 50 lb., fire pres. 45 to 100 lb.

Rates; flat, $15 year, bath & closet included; meter, min. charge $15 30,000 gal.

BAYHEAD, 281.

BAYHEAD WATER CO.

Pres., F. A. Goetze.....Bayhead
Sec. & Treas., James C. Egbert, Columbia University, 116th St. & Amsterdam Ave., N. Y. C.
Engr. P'g. Sta., A. J. Eiseman....Bayhead

Wells, 4 artesian 3 to 6-in. 450 to 960 ft. deep; reservoir, 60,000 gal.; no purification.

Pumps, 2-504,000 gal ea. Deane d. c. to gasoline engine, 230-hp. ea. Otto; air compressors, 2 Chicago; gravity distribution except for fire; elev. tank, 50,000 gal.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 39, hose con. 3-in. R. D. W.; valves, 21 various; av. daily cons. 275,000 gal.; serv. con. 291; ord. pres. 46.5 to 55 mi., fire pres. 110 lb.

BAYONNE, 55,545.

NEW YORK AND NEW JERSEY WATER COMPANY. Office, 61 Broadway, New York, N. Y.

Pres., J. Gilmore Fletcher. New York, N. Y.
V. Pres., C. A. Dana..... " " "
Sec. & Treas.,
De Witt Van Buskirk....Bayonne, N. J.

Buy water from the Passaic Water Company. See Patterson.

Pipe, 61.5 mi. 6 to 30-in. c. i.; hyd. 603, hose con. 2½ & 4½-in.; meters, 8749; av. daily cons. 7,229,000 gal.; serv. con. 8749; ord. pres. 10 to 45 lb.

BEACH HAVEN TERRACE, 300.

FIDELITY LAND CO.

Supt.,
Geo. H. Smith, Jr..Beach Haven Terrace

Artesian well, 6-in. 600 ft. deep.

Boiler, vert. 50-hp. Read.; hand stoking; pumps, 1-12,960 gal.; pumping to air pres. tank.

Av. daily cons. 24,000 gal.; serv. con. 55; ord. pres. 30 to 45 lb., fire pres. 75 lb.

BELLEVILLE, 7,632.

Supplied by the city of Newark.

BELMAR, 1,433.

MUNICIPAL.

Mayor & Chmn. Comrs., R. G. Poole. Belmar
Supt., W. H. Cooper..... "

Wells, 8 tubular 6 & 8-in. 650 ft. deep; near center business section.

Boilers, 3 locomotive 330-hp. Biggs; hand stoking; pumps, 1-1,296,000 gal. Davidson & 1-2,160,000 gal. Worthington; air compressors, 2 L-D-G. & Ingersoll-Rand; pumping to standpipe (1910) iron.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd., 140, hose con. 2½-in. Rensselaer; valves, 100 r. & l. h. thd. Rensselaer; meters, 900 Thomson; serv. con. 1000; ord. pres. 50 to 57 lb.

Rates; meter, min. charge $10.50 6000 cu. ft., $1.75 1000 cu. ft.

BELVIDERE, 1,764.

BELVIDERE WATER CO. Office, Water Street.

Pres., D. C. Blair,
24 Broad St., New York, N. Y.
V. Pres., Geo. M. Shipman.....Belvidere
Sec. & Treas., Charles C. Wilson. "
Gen. Mgr. & Pur. Agt.,
J. H. Wilson..... "
Engr. P'g. Sta., C. Schamberger.. "
Chemist, State Board of Health, Trenton

Delaware River & well, open.

Boilers, 3 tubular 150-hp. ea., one International & 2 Stroudsburg 1908; hand stoking; pumps, 1-1,080,000 gal. hor. comp. duplex d. act. Worth. 1908, 2-432,000 gal. hor. comp. duplex d. act. Worth. 1914; elec. motor, 3.5 kw. 115 v. Engbergs 1914; pumping direct.

Pipe, 5 mi. 6 to 12-in. c. i.; hyd. 21; meters, 3 National; av. daily cons. 100,000 gal.; serv. con. 75; ord. pres. 80 to 110 lb., fire pres. 80 to 125 lb.

Rates; flat, $3 quarter; meter, 60c. 1000 cu. ft. max., 50c. min.

BUCKHORN SPRINGS WATER CO.

Supt., Philip Miller.....Belvidere

Impounding reservoir on Buckhorn Creek, 1-2,000,000 gal.; natural sand & gravel filter; gravity distribution; av. daily cons. 95,000 gal.

BERGENFIELD, 1,991.

Supplied by the Hackensack Water Co. See New Milford.

BERNARDSVILLE, 1,350.

BERNARDS WATER CO.

Pres., Luther Childs.....Lyons
V. Pres., C. D. Smith.....Bernardsville
Sec. & Treas., P. V. Stryker.. "
Gen. Mgr. & Pur. Agt.,
Elmer Van Arsdale..... "

Branch of Passaic River; slow sand filter; pumping to reservoir; av. daily cons. 46,233 gal.

FRANK B. ALLEN WATER WORKS.

Supt., Frank B. Allen.....Bernardsville

Springs, 2; gravity distribution; av. daily cons. 400,000 gal.

BEVERLY, 2,140.

DELAWARE RIVER WATER CO. Supplies Edgewater Park, Delanco & Riverside.

Pres., Wm. C. Jones.....Camden
V. Pres., Howard Parry.....Riverton
Sec. & Asst. Treas., E. G. Bender. Camden
Treas., E. J. Burleigh..... "

Wells, 11 artesian 8 & 10-in. 56 to 60 ft. deep; standpipes, 2-190,000 gal., av. daily cons. 1,250,000 gal.

BLACKWOOD, 412.

BLACKWOOD WATER CO. Office 207 Market St., Camden, N. J.
Sec., L. B. Reader.....Camden
Des. Engr., G. L. Pfeiffer..... "

Wells, 3 tubular; coke strainers & slow sand filters; pumps, one triplex & one centrifugal; pumping direct & to standpipe; av. daily cons. 60,000 gal.

BLAIRSTOWN, 846.

BLAIRSTOWN WATER CO. (Owned by Blair Academy).
Mgr., John C. Sharp.....Blairstown

Artesian well, 8-in. 300 ft. deep; pumping direct & to standpipe; av. daily cons. 100,000 gal.

BLOOMFIELD, 15,070.

MUNICIPAL. Supply water from Montclair Water Co. See Little Falls.

BLOOMSBURY, 600.

THE BLOOMSBURY WATER CO.
Pres., John A. Staats.....Bloomsbury
V. Pres., Wm. W. Rutt..... "
Sec. Treas. & Supt., W. A. Rutt "

Mountain springs; 1½ mi. from center distribution; settling basin, 2,000,000 gal.

Gravity distribution from reservoir, 300,000 gal.; pipe 2.5 mi. 4 to 12-in. c. i.; hyd. 23, hose con. 4-in. Glamorgan; valves, 25 l. h. opening Crane; meters, one Neptune; av. daily cons. 62,500 gal.; serv. con. 75; ord. pres. 100 to 110 lb., fire pres. same.

Rates; meter, $1 1000 cu. ft. max., 50c. min.

BOGOTA, 1,125.

Supplied by the Hackensack Water Co. See New Milford.

BOONTON, 4,930.

UNITED WATER SUPPLY CO.
Pres., J. P. Conover.....Orange
V. Pres., E. J. Cahill.....Boonton
Sec., Treas. & Gen. Mgr.,
James D. Dean..... "

Stony Brook & spring; impounding reservoir, 1-161,000,000 gal.; distribution reservoir, 40,000 gal.; pumping for high points; av. daily cons. 356,000 gal.

BORDENTOWN, 4,250.

MUNICIPAL.
Supt., Harry Ford.....Bordentown
Engr. P'g. Sta., Henry Basher. "

Springs; 3 mi. from center distribution; no purification.

Boilers, 2; hand stoking; pumps, 2-1,000,000 gal. Worth.; pumping to reservoir, 200,000 gal. & standpipe (1905) iron.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 50 R. D. W.; valves, 40 R. D. W.; meters, 20 various; av. daily cons. 450,000 gal.; serv. con. 500; ord. pres. 45 to 60 lb., fire pres. same.

Rates; flat, $6 year, bath $5, closet $6.

BOUND BROOK, 3,970.

BOUND BROOK WATER CO. Office, 16 Mountain Ave. Supplies South Bound Brook, Bridgewater Township & Middlesex.
Pres., E. D. LaTourette.....Bound Brook
V. Pres., W. W. Smalley..... "
Sec., David Hastings..... "
Treas., Gen. Mgr. & Pur. Agt.,
W. B. R. Mason..... "

Mountain streams & wells, 20 artesian 6-in. 150 ft. deep; mechanical filters, Roberts; chemicals, liquid chlorine & sulphate of alumina.

Boiler, tubular 90-hp.; pumps 1-1,000,000 gal. triplex Deane, 1-500,000 gal. comp. Worthington; elec. motor, 3-hp. Wagner; gravity distribution from reservoir & standpipe.

Meters, 45 Neptune; serv. con. 850.

Rates; meter, min. charge $10 year 20,000 gal.

BRADLEY BEACH, 1,807.

Supplied by Monmouth County Water Co. See Asbury Park.

BRANCHVILLE, 663.

MUNICIPAL.

Impounding reservoir on Dry Brook, 1-1,600,000 gal.; sand & charcoal filter; gravity distribution from reservoir.

BRANT BEACH.

BEACH HAVEN NORTH COMPANY. Office, North American Building, Philadelphia, Pa.
Pres.,
Henry B. McLaughlin..Philadelphia, Pa.

Artesian well, 6-in. 576 ft. deep; pumping to elev. tank, 30,000 gal.; av. daily cons. 5,000 gal.

BRIDGEPORT, 613.

BRIDGEPORT WATER CO.
Treas., S. H. Richards,
106 Market St., Camden.

Wells, 4-4½-in. 35 ft. deep; pump, 1-216,000 gal. triplex Deming driven by gasoline engine, 10-hp. Otto; pumping to elev. tank, 50,000 gal.

BRIDGETON, 14,209.

MUNICIPAL.
Comr. Pub. Wks.,
W. D. Frederick.....Bridgeton

Tumbling Dam Lake at head of Cohansey River; impounding reservoir, 4 large ponds 47 sq. mi.; coagulating basin, 150,000 gal.; mechanical filters, 3,000,000 gal.; chemical, liquid chlorine, sulphate of alumina & soda ash.

Boilers, 2 water-tube 125-hp. ea.; hand stoking; pumps, 1-3,000,000 gal. Platt, 1-5,000,000 gal. Snow; pumping direct & to reservoir, 2,000,000 gal.

Pipe, 25.25 mi. 4 to 12-in. c. i.; hyd. 320, hose con. 2½ to 4-in. Thomson; valves, 435 l. h. thd. Thomson; av. daily cons. 3,000,000 gal.; serv. con. 3020; ord. pres. 25 to 60 lb., fire pres. same.

BRIDGEWATER TOWNSHIP.

Supplied by Bound Brook Water Co. See Bound Brook..

BURLINGTON, 8,336.

MUNICIPAL.

Pres. Comrs., Geo. A. Latta....Burlington
V. Pres., John H. Conroy..... "
Comr., Geo. W. Anthony..... "
" W. H. Schuyler..... "
" F. S. Carter..... "
Sec. Treas. & Supt., G. A. Allison "

Delaware River; near center distribution; settling & coagulating basin, 210,000 gal.; mechanical filters, 4-750,000 gal. ea.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 hor. tubular, 125-hp. Lebanon; hand stoking; pumps, 1-3,000,000 gal. comp. c. & f. wh. Holly, 1-1,500,000 gal. comp. c. & f. Holly, 1-500,000 gal. Worth.; pumping to standpipe (1888) 282,000 gal.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 145, hose con. 3-in. R. D. W.; valves, r. h. thd. Eddy & R. D. W.; meters, 3 Nat'l.; av. daily cons. 1,000,000 gal.; serv. con. 2180; ord. pres. 45 to 52 lb., fire pres. same.

Rates; flat, $5 year, bath $3, closet $3.

BUTLER, 2,265.

BUTLER WATER CO. Supplies Bloomingdale.

Pres., Wm. Lawler.....Butler
Sec. & Treas., Geo. J. Fritz..... "

Mountain Brook; 1½ mi. from center distribution; no purification.

Gravity distribution; pipe, 2 to 12-in.; av. daily cons. 275,000 gal.; serv. con. 500; ord. pres. 65 to 140 lb., fire pres. same.

CALDWELL, 2,236.

Supplied by Essex Fells Electric Light & Water Co. See Essex Fells.

Local Supt., Fred Rudolph.....Caldwell

CAMDEN, 94,538.

MUNICIPAL.

Ch. Engr., James H. Long.....Camden
Asst. Ch. Engr., Henry C. Hertline "
Ch. Clerk, Frank S. Fithian..... "
Ch. Engr. P'g. Sta., David B. Owen "

Wells, 104 artesian 8-in. 95 to 135 ft. deep; 7 mi. from center distribution; no purification.

Boilers, 5 water-tube 1000-hp. Nat'l.; hand stoking; pumps, 2-10,000,000 gal. ea. Holly, 1-10,000,000 gal. Blake; air compressors; one Hall, one Ingersoll-Rand both d. con. to steam engines, Mesta; pumping direct & to standpipe (1897) steel.

Pipe, 111 mi. 4 to over 30-in. c. i.; hyd. 929 mostly R. D. W.; valves, 1450 l. h. thd. mostly Rensselaer; meters, 1115 mostly Neptune & Pittsburgh; av. daily cons. 12,000,000 gal.; serv. con. 21,033; air pres. 25 to 40 lb., fire pressure, same.

Rates; flat, $5 year, bath $3, closet, $3; meter, min. charge $5 to $10 year, 20c 1000 gal. max., 10c. min.

CAPE MAY, 2,471.

MUNICIPAL.

Supplies West Cape May & South Cape May.

Chmn. Comrs., S. T. Bailey....Cape May
Comr., Geo. Wentzel..... " "
" L. C. Ashburn..... " "
Supt., Thos. W. Millet..... " "
Engr. P'g. Sta., F. C. B. Speace " "

Wells, 29 tubular 8-in. 130 to 575 ft. deep; 1.25 mi. from center business section.

Boilers, 2 return tubular 120-hp. ea. 100 lb. Keeler 1902-3, one locomotive 100-hp. 90 lb. Erie 1908; hand stoking; pumps, 1-2,500,000 gal. hor. duplex comp. d. act. Worth. 1907, 1-2,000,000 gal. hor. duplex comp. d. act. Worth. 1887, 1-1,000,000 gal. hor. duplex comp. d. act. Worth. 1902; air lift, Harris; air compressor, 600 cu. ft. Ingersoll-Rand 1911; pumping to elev. tank (1902) 150,000 gal. steel, Chicago Bridge & Iron Co.

Pipe, 20 mi. 4 to 16-in. c. i.; hyd. 150, hose con. 2½-in. R. D. W.; valves, 50 r. & l. h. opening R. D. W.; meters, 110 Neptune & Pittsburgh; av. daily cons. 1,250,000 gal.; serv. con. 1100; ord. pres. 63 lb.

Rates; flat, $6 year, bath $3, closet $2; meter, 15c. 1000 gal.

CAPE MAY COURT HOUSE, 900.

NEPTUNUS WATER CO.

Pres., W. H. Souder,
Cape May Court House
Treas., R. P. Risley,
Cape May Court House
Supt., H. H. Ross, Cape May Court House
Engr. P'g. Sta.,
H. L. Ware, Cape May Court House.

Wells, 3 artesian 2 to 6-in. 30 to 50 ft. deep; ½ mi. from center distribution; no purification.

Pumps, 2 steam Warren, one driven by elec. motor, 5-hp. 220 v. 3 ph. 60 cys. F. M.; pumping to elev. tanks, 2-20,000 gal. ea. wood.

Pipe, 0.25 mi. 4 to 12-in. c. i.; hyd. 7, hose con. 2-in.; meters, 3 Pittsburgh; av. daily cons. 35,000 gal.; serv. con. 115; ord. pres. 22 to 26 lb., fire pres. same.

Rates; flat, $8 year, bath & closet $5; meter, 11c. 1000 gal.

CARLSTADT, 3,807.

Supplied by Hackensack Water Co. See New Milford.

CHATHAM, 1,874.

MUNICIPAL.

Supt., A. Marck.....Chatham
Cons. Engrs., Tribus & Massa,
86 Warren St., New York, N. Y.

Wells, 6 tubular 4 to 8-in. 97 to 326 ft. deep; near center distribution.

Boilers, 2 water-tube 150-hp. Murray; hand stoking; pumps, 1-750,000 gal. Snow, 1-1,000,000 gal. Manistee; elec. motor, 50-hp. 2300 v. 3 ph. 60 cys. Ft. Wayne; pumping to standpipe (1898) steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 110, hose con. 2½-in. Eddy; valves, 152 r. h. thd. Eddy; meters, 200 Nat'l.; av. daily cons. 250,000 gal.; serv. con. 350; ord. pres. 25 to 150 lb.

Rates; meter, 25c. 1000 gal.

CLAYTON, 1,926.

CLAYTON-GLASSBORO WATER CO. Supplies Glassboro Township. (Controlled by American Pipe & Construction Company, 112 No. Broad St., Philadelphia, Pa.)

Pres., Jos. S. Keen.....Philadelphia, Pa.
V. Pres. & Treas.,
G. M. Bunting ..... "
Sec., H. Bayard Hodge... "
Asst. Sec., W. H. Roth... "
Gen. Supt., H. P. Keen... "
Supt., C. A. Volker.....Glassboro

Wells, 6 tubular 4 & 6-in. 100 ft. deep; no purification.

Boilers, 2 tubular 50-hp. ea. Deane; pumps, 2-1,000,000 gal. Deane; pumping to elev. tank, 2 & standpipe, 2-224,000 gal.

Pipe, 22 mi. 4 to 12-in.; hyd. 124; valves, 149; meters, 659; av. daily cons. 203,000 gal.; serv. con. 907; ord. pres. 40 to 60 lb.

CLEMENTON, 600.

CLEMENTON SPRING WATER CO.

Pres., S. Twitchett.....Clementon
Treas., Chas. O. Conner..... "
V. Pres., Abel Bottoms..... "
Sec., R. C. Wills..... "
Supt., F. E. McCann..... "
Cons. Engr., Wm. H. Boardman "

Wells, 2 artesian 6 & 8-in. 170 ft. deep; ¾ mi. from center distribution.

Boiler, vert. 25-hp.; hand stoking; pumps, 3-800,000 gal. Goulds, Deane & Platt; gasoline engines, 2 35-hp. Otto; pumping direct & to standpipe (1913) iron.

Hyd. 24, hose con. 2½-in. R. D. W.; valves, 30 l. h. thd. R. D. W.; meters, one; av. daily cons. 40,000 gal.; serv. con. 200; ord. pres. 65 to 75 lb., fire pres. same.

Rates; meter, min. charge, $10 29,000 gal., 35c. 1000 gal.

CLIFFSIDE PARK, 3,394.

Supplied by Hackensack Water Co. See New Milford.

CLIFTON, 500.

ACQUACKANONK WATER CO. Supplies Acquackanonk Township. For officers, see Paterson. (Controlled by New Jersey General Securities Co., 158 Ellison St., Paterson, N. J.) Supplied by Montclair Water Co. See Little Falls.

Pipe, 28.21 mi. 4 to 30-in. c. i. & steel; hyd. 179, hose con. 2½-in. Pratt & Cady; valves, 293 2. h. thd. Rensselaer; meters, 879 Neptune; av. daily cons. 755,000 gal.; serv. con. 1937; ord. pres. 49 to 85 lb., fire pres. same.

CLINTON, 836.

CLINTON WATER & WATER SUPPLY CO.

Sec. & Gen. Mgr., Chester Tomson. Clinton

Mountain Spring & well, 10 ft. in diam. 20 ft. deep.

Gravity distribution from reservoir, 500,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 41, hose con. 3-in. Eureka; valves, 15 r. h. thd. R. D. W.; meters, none; av. daily cons. 300,000 gal.; serv. con. 250; ord. pres. 130 lb. fire pres. 142 lb.

Rates; flat, $15 year.

CLOSTER, 1,483.

Supplied by Hackensack Water Co. See New Milford.

COLLINGSWOOD, 4,795.

Supplied by Merchantville Water Co. See Merchantville.

COLUMBUS, 535.

COLUMBUS WATER CO.

Wells, 2 tubular 6-in. 240 ft. deep; receiving well 15x20 ft. concrete; pumping to standpipe 100,000 gal.; av. daily cons. 25,000 gal.

CRANFORD, 3,000.

Supplied by the Plainfield-Union Water Co. See Plainfield.

CRESKILL, 550.

Supplied by Hackensack Water Co. See New Milford.

CROSSWICKS, 460.

CROSSWICKS WATER CO.

Pres., Josiah Brick.....Crosswicks
Sec., Geo. B. Thom..... "
Treas., James W. Caldwell..... "
Cons. Engr., W. W. Young,
70 Broadway, New York, N. Y.

Springs & wells, 15 ft. deep in diam. 12 ft. deep; one mi. from center distribution.

Pumps driven by gasoline engine, 23-hp. Otto; pumping to standpipe (1911) iron.

Pipe, 2.75 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in.; valves, 13 r. h. thd. R. D. W.; meters, 4 National & Hersey; av. daily cons. 8000 gal.; serv. con. 70; ord. pres. 30 to 43 lb.

DEAL, 273.

NEW JERSEY WATER & LIGHT CO.

Supt., Clem Conover.....Deal

Wells, 5 tubular 8 & 10-in. 185 to 380 ft. deep; pumps, 2 tri. exp.; air lift; pumping to standpipe, 285,000 gal.; av. daily cons. 200,000 gal.

DELANCO, 712.

Supplied by Delaware River Water Co. See Beverly.

DELFORD, 1,005.

Supplied by Hackensack Water Co. See New Milford.

DEMAREST, 560.

Supplied by Hackensack Water Co. See New Milford.

DOVER, 7,468.
MUNICIPAL.
Supt., Chas. P. Cook.....Dover
Clerk, J. V. Baker..... "

Springs & wells, 6 tubular 6-in. 87 to 265 ft. deep; ½ mi. from center distribution; chemical, hypochlorite of lime.

Pumps, 3-1,440,000 gal. 2 Goulds & one Platt; gasoline engine, 55-hp. National, oil engines, 275-hp. De La Vergne; pumping to reservoir, 7,500,000 gal.

Pipe, 24 mi. 4 to 10-in. c. i.; hyd. 160, hose con. 2½-in. various; valves, 150 r. & l. h. thd. Ludlow & Darling; meters, 1200 mostly Pittsburgh; av. daily cons. 517,000 gal.; serv. con. 1460; ord pres. 40 to 185 lb., fire pres. same.

Rates; flat, $2 quarter; meters, 20c. 100 cu. ft. max., 16c. min.

DUMONT, 1,783.
Supplied by Hackensack Water Co. See New Milford.

DUNELLEN, 1,990.
WATCHUNG WATER CO.
Supt., H. R. Cooke.....Dunellen

Wells, 6 tubular 6-in. 95 ft. deep; pumping to reservoir, 50,000 gal.; av. daily cons. 200,000 gal.

EAST ORANGE, 34,371.
MUNICIPAL.
Pres. Comr., Nicholas S. Hill, Jr., 100 William St., New York, N. Y.
Comr., Thomas F. Macksey..East Orange
" E. W. Hammer..... " "
Supt. & Ch. Engr., A. A. Reimer..... " "
Ch. Engr. P'g. Sta., Geo. W. Barnett..... " "

Wells, 40 Artesian 6 & 8-in. 115 to 260 ft. deep; 8.2 mi. from center distribution.

Boilers, 3-water-tube 150-hp. ea. B. & W.; hand stoking; pumps, 2-4,000,000 gal. ea. Snow; air compressor, L-D-G.; pumping to mountain crest & gravity flow to reservoir, 500,000,000 gal.; standpipe used as surge tank.

Pipe, 81.5 mi. 4 to 30-in. c. i.; hyd. 795, hose con. 2½-in. Ludlow, Rensselaer, Darling & Smith; valves, 1150 r. h. thd. Ludlow, Rensselaer, Smith & Kennedy; meters, 4400 mostly Neptune, National & Hersey; av. daily cons. 2,725,000 gal.; serv. con. 880; ord. pres. 54 to 107 lb., fire pres. same.

Rates; flat, $3 year, bath $2, closet $1.25; meter, min. charge $1.65 quarter 1000 cu. ft., $1.65 1000 cu. ft. max., $1.20 min.

EAST RUTHERFORD, 4,275.
Supplied by Hackensack Water Co. See New Milford.

EATONTOWN, 1,000.
Supplied by Tintern Manor Water Co. See Long Branch.

EDGEWATER, 2,655.
Supplied by Hackensack Water Co. See New Milford.

EGG HARBOR CITY, 3,181.
EGG HARBOR CITY WATER CO.
Pres., Charles Blattner...Egg Harbor City
Treas., Jos. Butterhof.... " " "
Supt., A. C. Goller..... " " "

Artesian wells, 3; no purification.

Pumps, 2-175,000 gal. Deane & Platt belted to gasoline engines, 2 21 & 42-hp. Otto; pumping to standpipe.

Pipe, 9 mi. 4 to 12-in.; hyd. 42, hose con. 2½-in.; meters, 120 Pittsburgh; serv. con. 500; ord. pres. 40 lb., fire pres. 90 lb.

ELIZABETH, 73,409.
ELIZABETHTOWN WATER CO. Supplies Grasselli, Linden & Union.
Supt., John Whelan.....Elizabeth
Engr. P'g. Sta., D. H. Townley.. "

Wells, 110 tubular 6 to 10-in. 135 ft. deep; impounding reservoirs, 2-50,000,000 gal.; chemical, hypochlorite of lime; pumping to distributing reservoir, 2,500,000 gal.; av. daily cons. 14,000,000 gal.

ELMER, 1,167.
ELMER WATER CO.
Supt., Clinton Johnson.....Elmer
Cons. Engr., Geo. Peffer....Camden, N. J.

Well, 12-in. 120 ft. deep; near center distribution; no purification.

Pumps, Deming driven by gasoline engine, 2 15-hp. Otto; pumping to standpipe (1913) 96,600 gal. iron.

Pipe, 5.25 mi. 4 to 10-in. c. i.; hyd. 62, hose con. 2½-in. R. D. W.; valves, 31 r. h. thd.; meters, Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 115; ord pres. 44 to 48 lb., fire pres. same.

EMERSON, 767.
Supplied by Hackensack Water Co. See New Milford.

ENGLEWOOD, 9,924.
Supplied by Hackensack Water Co. See New Milford.

ENGLEWOOD CLIFFS, 410.
Supplied by Hackensack Water Co. See New Milford.

ESSEX FELLS, 442.
ESSEX FELLS ELECTRIC LIGHT & WATER CO. Supplies Caldwell, Roseland and Verona.
Pres., H. Wendell.....Essex Fells
Treas., F. H. Treat..... " "
Sec. & Supt., R. S. Wendell.... " "
Engr. P'g. Sta., Chas. Van Iderstein..... " "

Wells, 7 tubular 6 to 8-in. 50 ft. deep; one mi. from center business section; no purification.

Boilers, 2 hor. tubular 230-hp. Reading; hand stoking; pumps, 4-1,800,000 gal. Worth. & Rumsey; elec. motor, 2-hp. 220 v. 2 ph. 60 cys.; pumping to reservoir, 1,650,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. Ludlow & R. D. W.; valves, 145 r. & l. h. thd. Crane; meters, 110 Nat-

ional, Worth. & Neptune; av. daily cons. 256,000 gal.; serv. con. 125; ord. pres. 75 to 110 lb., fire pres. same.

Rates; meter, 25c. 1000 gal.

FAIR HAVEN, 1,000.

Supplied by Tintern Manor Water Co. See Long Branch.

FAIRVIEW, 2,441.

Supplied by Hackensack Water Co. See New Milford.

FANWOOD, 471.

Supplied by Plainfield-Union Water Co. See Plainfield.

FLEMINGTON, 2,693.

FLEMINGTON WATER CO.

Pres., Alexander Allen.....Flemington
Cons. Engr., H. M. Herbert. Bound Brook

Raritan River and well, 8-in. 405 ft. deep; coagulating basin; slow sand filter, 325,000 gal.; chemicals, chlorine & hypochlorite of lime; pumping to reservoirs, 2-720,000 gal.; av. daily cons. 200,000 gal.

FORT LEE, 4,472.

Supplied by Hackensack Water Co. See New Milford.

FREEHOLD, 3,233.

MUNICIPAL.

Wells, 13 artesian 3 to 10-in. 60 to 500 ft. deep; pumps, 2 comp. steam & one triplex; air lift; water turbine, one; pumping to standpipe, 235,000 gal.; av. daily cons. 350,000 gal.

FRENCHTOWN, 984.

FRENCHTOWN WATER CO.

Supt., E. L. Wilson.....Frenchtown

Creek; filtering through river bed; pumping to reservoir; av. daily cons. 100,000 gal.

GARFIELD, 10,213.

MUNICIPAL.

Mayor, E. B. Dahnert.....Garfield
Clerk, F. V. Romaglia..... "
Supt., Wm. Beswick..... "
Cons. Engr., A. L. Pettersen.....Passaic

Wells, 12 artesian 8-in. 280 to 440 ft. deep; ¾ mi. from center business section.

Boilers, 2 hor. 50-hp. ea. 110 lb. Smith 1898 & 1914; hand stoking; pumps, 1-500,-000 gal. hor. triplex d. act. Snow 1900, 2-1,500,000 gal. ea. hor. triplex d. act. Worth. 1914, 1-500,000 gal. hor. triplex d. act. Goulds 1904, 1-432,000 gal. vert. centrifugal Morris 1914 d. con. to elec. motor, 25-hp. 220 v. 2 ph. 60 cys. Sprague 1914; gasoline engine, 50-hp. National 1904; elec. energy from Public Service Corporation of New Jersey; pumping to standpipes, 2 (1902, 1914) 212,000 gal. ea.

Pipe, 26 mi. one to 12-in. c. & galv. iron; hyd. 173, hose con. 2½-in. Rensselaer, Ludlow & Eddy; valves, Crane & Kennedy-meters, 1300 various; av. daily cons. 450,; 000 gal.; serv. con. 1700; ord. pres. 62 to 85 lb., fire pressure. same.

Rates; flat, $2 quarter; meter, $8 year 20,000 gal.

GARWOOD, 1,118.

Supplied by Plainfield-Union Water Co. See Plainfield.

GERMAN VALLEY, 515.

GERMAN VALLEY WATER CO.

Pres., E. J. Neighbour.....German Valley
V. Pres. & Sec.,
John Holthusen..... " "
Treas., D. S. Trimmer..... " "
Supt., John T. Naughright. " "

Natural springs; one mi. from center distribution; no purification.

Gravity distribution; serv. con. 50.

GIBBSBORO, 400.

JOHN LUCAS & COMPANY.

Wells, 2 tubular 8-in. 160 ft. deep; pump, 1-130,000 gal. duplex Worth.; pumping to elev. tanks, 2-7,400 gal.; av. daily cons. 122,000 gal.

GLASSBORO, 2,000.

Supplied by Clayton-Glassboro Water Co. See Clayton.

GLEN GARDNER, 483.

GLEN GARDNER WATER CO.

Pres., W. F. Carling.....Glen Gardner
Treas., Geo. S. Foss..... " "
Supt., S. D. Vliet..... " "

Spring; 1.25 mi. from center distribution.

Gravity distribution; serv. con. 55; ord. pres. 70 lb.

GLEN RIDGE, 2,260.

MUNICIPAL.

Supt. & Engr., James E. Brooks. Glen Ridge

Buy water from Montclair Water Co. See Little Falls.

Gravity distribution; pipe, 14 mi. 4 to 12-in. c. i.; hyd. 120, hose con. 2½-in. Ludlow; meters, 900 National; av. daily cons. 200,000 gal.; serv. con. 900; ord. pres. 45 to 90 lb.

Rates; all meter, $2.10 1000 cu. ft.

GLEN ROCK, 1,055.

Supplied by Bergen Aqueduct Co. See Ridgewood.

GLOUCESTER, 9,462.

MUNICIPAL.

Chmn. Comrs., Charles Fowler, Gloucester

Wells, 9 tubular 8-in. 90 to 175 ft. deep; coagulating basins, 2-71,300 gal.; mechanical filters, 2,000,000 gal.; filtering area 691.5 sq. ft. Pittsburgh; air lift; pumping to reservoir & standpipe; av. daily cons. 2,500,000 gal.

GUTTENBURG, 5,647.

Supplied by Hackensack Water Co. See New Milford.

HACKENSACK, 14,050.
Supplied by Hackensack Water Co. See New Milford.

HACKETTSTOWN, 2,715.
MUNICIPAL. Hackettstown Aqueduct Co.
Pres., A. W. Cutter.....Hackettstown
Treas., C. N. Wade..... "
Sec., Harry Nolan..... "
City Engr., A. H. Dellecker.. "
Impounding reservoirs & springs & mountain streams, 4-10,000,000 gal.; 2 mi. from center business section; gravity distribution; pipe, 12 mi. 4 to 10-in. c. i.; hyd., 95; valves, 85 r. h. opening Jenkins; meters, 16 National; serv. con. 500; ord. pres. 75 to 108 lb., fire pres. same.
Rates; flat $2.25 quarter including bath & closet.

HADDONFIELD, 4,142.
NEW JERSEY WATER SERVICE CO. Supplies Audubon, Haddon Heights & Oaklyn.
Wells, 2 tubular 4 & 10-in. 180 ft. deep; pumping to reservoir, 2,000,000 gal. & standpipes 3; av. daily cons. 425,000 gal.

MUNICIPAL.
Wells, 4 artesian 8 & 10-in. 220 ft. deep; pumps, 2 Deane driven by gas engines, 2 Otto; pumping to standpipe & reservoir; av. daily cons. 150,000 gal.

HADDON HEIGHTS, 1,452.
Supplied by New Jersey Water Service Co. See Haddonfield.

HALEDON, 2,560.
MUNICIPAL.
City Clerk, J. J. Stewart.....Haledon
Supt., W. F. Westerfield..... "
Brook & spring; 3.5 mi. from center business section; ravity distribution.

HAMMONTON, 5,088.
MUNICIPAL.
Pres. Comr., John M. Austin..Hammonton
Comr., W. J. Goggey..... "
Sec., Edw. A. Cordery..... "
Supt. & Engr. P'g. Sta.,
Geo. W. Dodd..... "
Wells, 6 tubular 6 & 8-in. 180 to 306 ft. deep; near center distribution.
Boilers, 2 return tubular 100-hp. Erie; hand stoking; pumps, 2-540,000 gal. comp. duplex Platt; air compressors, 2 American; pumping to standpipe (1902) 100,000 gal. steel.
Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 112, hose con. 2½-in. Rensselaer; valves, 67 r. & l. h. thd. Rensselaer; meters, 135 Neptune & Pittsburgh; av. daily cons. 127,000 gal.; serv. con. 762; ord. pres. 40 to 60 lb., fire pres. 40 to 110 lb.

HAMPTON, 914.
THE JUNCTION WATER CO.
Pres. & Supt., E. P. Baylor.....Hampton
Sec., J. D. Staples..... "
Treas., H. M. Bigelow..... "
Springs; 3 mi. from center distribution.
Gravity distribution from reservoir, 350,000 gal.
Pipe, 4.5 mi. 4 to 12-in.; hyd. 21, hose con. 2½-in. Rensselaer; valves, 14 l. h. opening Rensselaer; ord. pres. 50 to 200 lb., fire pres. same.
Rates; flat, $15 year.

HARRINGTON PARK, 377.
Supplied by Hackensack Water Co. See New Milford.

HARRISON, 14,498.
Buy water from Montclair Water Co. See Little Falls.

HASBROUCK HEIGHTS, 2,155.
Supplied by Hackensack Water Co See New Milford.

HAWORTH, 588.
Supplied by Hackensack Water Co. See New Milford.

HELMETTA, 661.
THE GEO. W. HELME CO. Office, 111 Fifth Ave., New York, N. Y.
Pres., Otis Smith.....New York, N. Y.
V. Pres. & Gen. Mgr.,
C. W. Bumstead.....Helmetta
Sec. & Treas.,
F. D. Christian.....New York, N. Y.
Wells, one 10 x 24 ft. & one 12-in. 32 ft. deep; near center business section; mechanical filters 35,000 gal. Permutit.
Boilers, 6 return tubular 250-hp. ea. 100 lb. Smith 1914; hand stoking; pumps, 2 steam Worthington; pumping to elev. tank (1914) 50,000 gal. steel, Pittsburgh-Des Moines Steel Co.
Pipe, 2.5 mi. one to 3-in. galv. & wrought iron; hyd., 30 Lewis; valves, 7 r. h. opening Jenkins; av. daily cons. 16,500 gal.; serv. con. 27; ord. pres. 35 to 46 lb.

HIGH BRIDGE, 1,545.
MUNICIPAL.
Supt., Jacob Spaughright.....High Bridge
Collector, Louis S. Perry..... " "
Mountain spring; 3 mi. from center distribution; no purification.
Gravity distribution from reservoir, 700,000 gal.
Hyd. 35, hose con. 3-in.; av. daily cons. 70,000 gal.; serv. con. 225; ord. pres. 125 lb., fire pres. same.
Rates; flat, $14 year.

HIGHLAND PARK, 1,517.
Supplied by the city of New Brunswick.

HIGHLANDS, 1,386.
MUNICIPAL.
City Engr., F. Osborn.....Highlands
Wells, 5 tubular 5 & 8-in. 213 to 650 ft. deep; mechanical filters, filtering area 1800 sq. ft.; pumps, one comp. Snow; air lift; pumping to standpipe, 158,000 gal.; av. daily cons 100,000 gal.

HIGHTSTOWN, 1,879.
MUNICIPAL.
Mayor, R. D. Norton.....Hightstown
Comr. & Supt., E. P. Rodgers.. "
Wells, 4 artesian 6 & 10-in. 202 & 212 ft. deep; ½ mi. from center distribution; settling basins, 10,000 gal.; slow sand filter, 10,000 gal.; chemical, lime.
Boilers, 2 tubular 30 & 50-hp. Thropp & Dover; hand stoking; pumps, 2-1,728,000 gal. Wheeler; pumping direct & to standpipe, iron.
Hyd. 38, hose con. 2½-in. Eddy; meters, 4 Neptune; av. daily cons. 600,000 gal.; serv. con. 340; ord. pres. 40 to 60 lb., fire pres. same.

HILLSDALE, 760.
Supplied by Hackensack Water Co. See New Milford.

HOBOKEN, 70,324.
MUNICIPAL. Board of Water Commissioners.
Supt., A. Neri.....Hoboken
Registrar, G. Bach..... "
Buy water from the Hackensack Water Co. See New Milford.
Boilers, 4 hor. water-tube 500-hp. ea. 175 lb. 1905; pumps, 1-10,000,000 gal. 1900, 1-20,000,000 gal. 1906, 1-12,000,000 gal. 1906, 1-14,000,000 gal. 1908, all vert. tri. exp. c. & f. wh. Allis; pumping direct & to reservoirs, 2-93,660,000 gal.
Pipe, 32.8 mi. 4 to 30-in. c. i.; hyd. 365; hose con. 2½ & 4½-in.; valves, 526; meters, 3700; av. daily cons. 6,600,000 gal.; serv. con. 5500; ord. pres. 24 to 50 lb.

HOHOKUS, 488.
Supplied by Bergen Aqueduct Co. See Ridgewood.

HOLLY BEACH, 1,901.
HOLLY BEACH, WILDWOOD & NORTH WILDWOOD WATER CO.
Treas., Geo. N. Smith.....Holly Beach
Buy water from Wildwood Water Works Co. See Wildwood.

HOPEWELL, 1,073.
MUNICIPAL.
Comr., F. M. Leigh.....Hopewell
" Robt. Zulaef..... "
" Robt. Miller..... "
Supt., J. M. Ege..... "
Cons. Engr., John D. Kilpatrick, 30 Church St., New York, N. Y.
Wells, 4; ¼ mi. from center distribution; no purification.
Air compressor, driven by gasoline engine, 15-hp.; pumping to reservoir, 226,000 gal.
Pipe, 2 mi. 4 to 8-in.; hyd. 24, hose con. 2½-in.; meters, 200 Union & Pittsburgh; av. daily cons. 15,000 gal.; serv. con. 200; ord. pres. 100 lb., fire pres. same.

IRVINGTON, 11,877.
CLINTON WATER CO. Office, Summit.
Pres., Fred R. Drake.....Summit
Sec., Gen. Mgr. & Pur. Agt.,
F. C. Kimball.....Summit
Treas. & Des. Engr., C. P. Bassett. "
Local Supt., M. S. Sherrill..... "
Buy water from Commonwealth Water & Light Co. See Summit.
Hyd., 228, hose con. 2½-in.; meters, 2707 various; av. daily cons. 870,000 gal. 80%; serv. con. 3250; ord. pres. 70 to 165 lb., fire pres. same.
Rates; meter, min. charge $2 quarter 6,750 gal., 30c. 1000 gal. max., 10c. min.

JAMESBURG, 2,075.
JAMESBURG WATER CO.
Pres., Merritt Pharo.....Jamesburg
Treas., Louis Rafetto..... "
Supt., Jos. W. Pharo..... "
Wells, 3 artesian 6-in. 80 ft. deep; ¼mi. from center distribution.
Pumps, 2-228,000 gal. Davis; gasoline engines, 15-hp. Otto; water turbines, 8-hp.; pumping to standpipe, steel.
Pipe, 5 mi. 4 to 12-in.; hyd. 39, hose con. 2½-in. R. D. W.; meters, 112 Pittsburgh; av. daily cons. 60,000 gal.; serv. con. 210; ord pres. 57 lb.

JERSEY CITY, 267,779.
MUNICIPAL.
Comr., James Byrnes.....Jersey City
Clerk, Edward B. See..... " "
Impounding reservoir on Rockaway River 7,186,000,000 gal.; 20 mi. northwest of city.
Boilers, 2 tubular 150-hp. ea. 70 lb. Worth. 1879, tubular 200-hp. 70 lb. Worth. 1890; pumps, 1-5,500,000 gal. hor. comp. duplex Worth. 1889, 1-3,500,000 gal. hor. comp. duplex Worth. 1879, 1,1,500,000 gal. hor. comp. Knowles 1874; pumping to standpipe.

KEARNEY, 18,659.
MUNICIPAL.
Buy water from Montclair Water Co. See Little Falls.

KENILWORTH, 779.
NEW ORANGE PARK WATER, HEAT, LIGHT & POWER CO.
Pres., James Arthur.....Kenilworth
Supt., James J. Dixon..... "
Artesian well, 275 ft. deep; ½ mi. from center business section; no purification.
Boiler, return tubular 150-hp. Coatesville; hand stoking; pump, Worth.; air compressor, Clayton; pumping to standpipe (1909) 142,000 gal. iron.
Hyd. 6, hose con. 2½-in.; av. daily cons. 12,000 gal.; serv. con. 30; ord. pres. 35 to 50 lb.

KEYPORT, 3,554.
MUNICIPAL.
Mayor, R. O. Walling.....Keyport
City Engr., Gustave Ramaurer.... "
Wells, 6 4½-in. 250 ft. deep; coagulating basin, 20,000 gal.; mechanical filters, two filtering area 1692 sq. ft.; chemical, lime, pumping direct; av. daily cons. 250,000 gal.

LAKEHURST, 500.

LAKEHURST SEWER CO.

Sec., E. W. Ettings.....Lakehurst

Well, 8-in. 125 ft. deep; pumps driven by elec. motor, 5-hp. & windmill, 5-hp.; pumping to elev. tank 22,000 gal.; av. daily cons. 10,000 gal.

LAKEWOOD, 2,800.

LAKEWOOD WATER, LIGHT & POWER CO. (Controlled by Commonwealth Water & Light Co.) Office, Summit.

Pres., F. P. Kimball,
101 W. 54th St., ... NewYork, N. Y.
Sec. & Gen. Mgr., F. C. Kimball...Summit
Treas., C. P. Bassett..... "
Pur. Agt. & Supt.,
H. M. Whitehead .....Lakewood
Des. Engr., C. P. Bassett.....Summit

Wells, 3 tubular 6 & 8-in. 615 ft. deep; ¼ mi. from center business section; mechanical filters, 2 10 ft. diam., New York.

Pumps, 1-1,000,000 gal. hor. comp. d. act. Worth., 1-1,500,000 gal. hor. comp. d. act. Worth., 1-750,000 gal. hor. duplex Worth. driven by water turbine; air compressor, 500 cu. ft. Sweigard steam driven; pumping to standpipe, 142,000 gal.

Pipe, 20.5 mi. 4 to 8-in. c. i.; hyd. 114, hose con. 2½-in. R. D. W.; meters, 429 various; av. daily cons. 784,000 gal. 80%; serv. con. 797.

Rates; flat, $21 year including bath & closet; meter, min. charge $12 year 40,000 gal. 30c. 1000 gal. max., 15c. min.

LAMBERTVILLE, 4,657.

LAMBERTVILLE WATER CO.

Pres., G. W. Massey.....Lambertville
Sec. & Treas., F. W. VanHart. "
Supt., A. D. Anderson..... "

Springs; impounding reservoir, 30,000,000 gal.; slow sand filter.

Gravity distribution from reservoir, above; av. daily cons. 250,000 gal.; ord. pres. 75 lb., fire pres. same.

LAUREL SPRINGS, 161.

LAUREL SPRINGS WATER SUPPLY CO. Supplies Magnolia, Lindenwold, Overbrook, Somerdale, Stratford & White Horse.

Supt., R. M. Wilson.....Laurel Springs

Wells, 6 tubular 4½ & 9-in. 115 ft. deep; pumps, 4 triplex Goulds driven by gasoline engines, 3; pumping to elev. tank, 27,000 gal.; av. daily cons. 100,000 gal.

LAWRENCEVILLE, 207.

OWNED BY JAMES E. HULLFISH.

Supt. & Engr. P'g. Sta.,
James E. Hullfish.....Lawrenceville.

Wells, 2 tubular 6-in. 65 ft. deep.

Pumps, 2 Myers belted to elec. motors, 2 1 & 2 hp. Wagner; pumping to standpipe (1908) steel.

Av. daily cons. 3000 gal.; serv. con. 50.

Rates; flat, $7 year, bath $3, closet $3.

LEONIA, 1,486.

Supplied by Hackensack Water Co. See New Milford.

LINDEN, 610.

Supplied by Elizabethtown Water Co. See Elizabeth.

LINWOOD, 602.

Supplied by Pleasantville Water Co. See Pleasantville.

LITTLE FALLS, 1,500.

MONTCLAIR WATER CO. Supplies Passaic Water Co. for Paterson; Acquackanonk Water Co. for Athenia, Passaic and Acquackanonk Township; Montclair Water Co. (distinct from above) for Montclair; sells water wholesale to Bayonne, Bloomfield, Newark, Glen Ridge, Harrison, Kearney, Little Falls, Nutley & West Orange. (Controlled by the New Jersey General Security Co., 158 Ellison St., Paterson, N. J. For officers, see Paterson.)

Passaic River; ½ to 18 mi. from center distribution; settling basins, 2-6,750,000 gal.; mech. filters, 32-40,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Boilers, 5 water-tube 250-hp. Heine; hand stoking; pumps 3-10,000,000 gal. ea. Dickson, 1-20,000,000 gal. Dickson; pumping direct & to reservoirs, 60,000,000 gal.

Distribution system belongs to companies and towns named above; av. daily cons. 31,600,000 gal.

LITTLE FALLS WATER CO.

Pres., M. A. Wray.....Little Falls
Sec. & Treas., S. C. Morehouse. " "
Supt., B. A. Stanley..... " "
Des. Engr., A. W. Cuddeback
158 Ellison St., Paterson, N. J.

Buy water wholesale from Montclair Water Co., Little Falls.

Pipe, 10.5 mi. 4 to 12-in. c. i.; hyd. 142; hose con. 2½-in. Rensselaer, Pratt & Cady; valves, r. h. thd. Rensselaer & F. M.; meters, 400 Neptune; av. daily cons. 55,700 gal.; serv. con. 467; ord. pres. 20 to 125 lb., fire pres. same.

Rates; meter, min. charge $12 year, 30c. 1000 gal.

LITTLE FERRY, 2,541.

Supplied by Hackensack Water Co. See New Milford.

LODI, 4,138.

Supplied by Borough of Garfield. Also supplied by Hackensack Water Co. See New Milford.

LONG BRANCH, 13,298.

TINTERN MANOR WATER CO. Supplies Eatontown, Fair Haven, Oceanic, Rumson & Seabright.

Supt., Wellington Lamont....Long Branch

Swimming River and Whale Lake; mechanical filters, 12-12,000,000 gal & 10-3,000,000 gal.; sedimentation.

Newman Springs Station: Pumps, 2-15,000,000 gal. Worth., 3-16,000,000 gal. centrifugal Lawrence; West End Station:

Pumps, 1-2,500,000 gal. Worth., 1-6,000,000 gal. Holly; pumping to reservoirs; av. daily cons. 3,580,000 gal.

LUMBERTON, 400.

LUMBERTON LIGHT, WATER & SEWERAGE CO.

Pres., C. W. Mendenhall.....Lumberton
Sec.-Treas., W. M. Voorhees.... "
Supt., J. H. Stermer..... "
Engr. P'g. Sta., Chas. E. Peacock "

Rancocas River; ½ mi. from center business section; no purification.

Pumps, 1-350,000 gal. Goulds belted to gasoline engine 20-hp. F. M.; pumping to standpipe (1905) iron.

Pipe, 4 mi. 4 to 6-in. c. i.; hyd. 20, hose con. 3-in. R. D. W.; valves, 16 R. D. W.; av. daily cons. 17,000 gal.; serv. con. 98; ord. pres. 25 to 43 lb., fire pres. 100 lb.

LYNDHURST, 300.

Supplied by Hackensack Water Co. See New Milford.

MADISON, 4,658.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
H. S. Torrey.....Madison.

Wells, 8 tubular 6-in. 100 to 160 ft. deep; one mi. from center distribution; no purification.

Boilers, 5 return tubular, 150-hp. Union; hand stoking; pumps, 2-1,000,000 gal. Deane; pumping direct & to standpipe (1890) iron.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 170, hose con. 2½-in.; meters, 550 various; av. daily cons. 350,000 gal.; serv. con. 550; ord. pres. 50 to 75 lb., fire pres. 75 to 90 lb.

Rates; meter, 22.5c. 1000 gal.

MANASQUAN, 1,582.

MUNICIPAL.

Wells, 2 artesian 6-in. 48 to 150 ft. deep; pumping to standpipe, 155,000 gal.; av. daily cons. 30,000 gal.

MANTOLOKING, 500.

MANTOLOKING WATER CO.

Supt., Louis De F. Downer,
161 Ave. A., New York, N. Y.
Engr. P'g. Sta., Wm. Hall....Mantoloking

Wells, 4 artesian 3 & 6-in. 800 to 1000 ft. deep; near center distribution.

Pumps, 1-86,400 gal. Otto, 2-216,000 gal. ea. Deming; gas engines, three 4,6 & 21-hp. Otto; air compressors, 2 Gardner; pumping to elev. tank, 20,000 gal. wood.

Pipe, 4000 ft. of 3-in. c. i.; av. daily cons. 60,000 gal.; serv. con. 60; ord. pres. 25 lb., fire pres. same.

MANTUA, 600.

JOB SCOTT WATER WORKS.

Supt., Job Scott.....Mantua

Wells, 3 tubular 2 & 4-in. 112 ft. deep; pump driven by engine, 10-hp.; pumping to elev.tank 20,000 gal.; av. daily cons. 12,000 gal.

MARGATE CITY, 129.

MUNICIPAL.

Comr., Albert M. Freas.....Margate City
Supt. & Engr. P'g. Sta.,
James Boice..... " "

Wells, 2 artesian 6-in. 815 ft.; at center distribution; no purification.

Pumps, 1-375,000 gal. triplex Goulds belted to gas engines, three 8, 9 & 25-hp. F. M.; air compressor, Sweigard; pumping to standpipe (1903) iron.

Pipe, c. i.; hyd. 43, hose con. 2½-in.; valves, R. D. W.; meters, 4 Hersey; av. daily cons. 75,000 gal.; serv. con. 300; ord. pres. 42 lb.

MARLTON, 650.

THE MARLTON WATER CO.

Pres., W. B. Lippincott.....Marlton
V. Pres., C. H. Brick..... "
Sec., Treas. & Pur. Agt.,
Wm. H. Zelley..... "

Artesian well, 6-in. 212 ft. deep; near center business section, settling basin, 50,000 gal.

Pumps, one vert. triplex 1897 belted to gasoline engines, 15 & 35-hp. Otto & Olds 1897 & 1903; air compressor, one 1897; pumping to standpipe (1877) 50,000 gal.

Pipe, 2 mi. 4 & 6-in. c. i.; hyd. 20 Ludlow; valves, 15 Ludlow; serv. con. 82.

Rates; flat, $7 year, bath $4, closet $3.

MATAWAN, 1,646.

MUNICIPAL.

Supt. & Engr. P'g. Sta., I. T. Rue, Matawan

Wells, 3 tubular 6-in. 200 to 325 ft. deep; ½mi. from business center; slow sand filter 35 x 22 x 8 ft; chemicals, none.

Boilers, 2 75-hp. ea. 80 lb. Keeler 1903; hands toking; pumps, 2-500,000 gal. ea. hor. comp. d. act. Platt 1903; air compressors, 350 cu. ft. Platt 1913 & 475 cu. ft. Ingersoll-Rand 1913 steam driven; pumping to standpipe (1903) 97,500 gal.

Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 53, hose con. 2½-in. Eddy; valves, 30 r. h. opening Crane; meters, 370 Pittsburgh & Neptune; av. daily cons. 150,000 gal.

Rates; meters, min. charge $6 year 12,000 gal., 10c. 1000 gal.

MAYS LANDING, 1,359.

MUNICIPAL.

Chmn. Comrs.,
Harrison Wilson.....Mays Landing
Comr., Curtis Hazelton..... " "
Treas., Chas. D. Makepeace. " "
Secy., Thompson Hoover... " "
Supt. & Engr. P'g. Sta.,
John Abbott..... " "

Wells, 2 tubular 8-in. 250 ft. deep; near center business section; no purification.

Pumps driven by gasoline engine, 35-hp. Otto 1907; pumping to standpipe (1907) 101,000 gal. steel.

Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 52; valves, 38 l. h. opening; av. daily cons, 60,000 gal.; serv. con. 175; ord. pres. 40 to 55 lb., fire pres. same.

Rates; flat, $8 six. mos., bath $2, closet $2.

MAYWOOD, 889.
Supplied by Hackensack Water Co. See New Milford.

MEDFORD, 1,100.
MEDFORD WATER CO.
Pres., J. H. Haines.....Medford
Treas., J. Bowker..... "
Sec. & Supt., J. W. Garwood..... "
Creek; one mi. from center distribution.
Pumps, 2-720,000 gal. driven by gasoline engines, 2 20 & 25-hp. Otto; pumping to standpipe (1895) iron.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 2½-in. Ludlow; valves, 15 r. h. thd.; meters, none; av. daily cons. 50,000 gal.; serv. con. 200; ord. pres. 25 to 40 lb., fire pres. 25 to 60 lb.

MENDHAM, 1,129.
MUNICIPAL.
City Clerk, Leo Robinson.....Mendham
Springs; gravity distribution from reservoirs, 40 x 40 x 9 ft. & 60 x 60 x 9 ft.; av. daily cons. 25,000 gal.

MERCHANTVILLE, 1,996.
MERCHANTVILLE WATER CO. Supplies Pensauken Township, part of Camden City & Collingswood.
Mgr., M. B. Rudderow.....Merchantville
Sec. & Treas., Wm. D. Weikel "
Des. Engr., W. H. Boardman "
Wells, 10 artesian 8 & 10-in. 70 to 240 ft. deep; 2 mi. from center distribution; mech. filters, 2,500,000 gal.; chemicals, none.
Boilers, 3 vert. & tubular 270-hp. Wetherill & Pottstown; hand stoking; pumps, 4-3,000,000 gal. Platt & Blake; pumping to standpipes, 2 iron.
Pipe, 34 mi. 4 to 12-in. c. i.; hyd. 135, hose con. 2½-in. Rensselaer; valves, Rensselaer & R. D. W.; meters, 500 Neptune & Thomson; av. daily cons. 375,000 gal.; serv. con. 1500; ord. pres. 32 to 48 lb., fire pres. 48 lb.
Rates; meters, 30c. 1000 gal.

METUCHEN, 3,138.
MIDDLESEX WATER CO. Office, Elizabeth. For officers, see So. Plainfield.
For details of supply, purification and pumping equipment, see So. Plainfield.
Pipe, 11.5 mi. 4 to 12-in. c. i.; hyd. 49, hose con. 2½-in. R. D. W. & Rensselaer; meters, 500 Hersey, Nat'l., Neptune & Pittsburgh; serv. con. 500; ord. pres. 50 lb., fire pres. same.
Rates; meter, 25c. 100 cu. ft. max., $1 1000 cu. ft. min.

MIDDLESEX.
Supplied by Bound Brook Water Co. See Bound Brook.

MIDLAND PARK, 2,001.
Supplied by Hackensack Water Co. See New Milford. Also supplied by the Bergen Aqueduct Co. See Ridgewood.

MILFORD, 754.
MINE SPRING WATER CO.
Gen. Mgr., A. Sinclair.....Milford
Well, 22 x 20 ft.; pump, vert. triplex Platt driven by water turbine; pumping to standpipe 198,000 gal.; av. daily cons. 8000 gal.

MILLBURN, 2,100.
Commonwealth Water & Light Co. See Summit.

MILLVILLE, 12,451.
MILLVILLE WATER CO.
Gen. Mgr., S. J. Franklin.....Millville
Sec., M. C. Livermore..... "
V. Pres., E. B. Goodwin..... "
Treas., Walter Wood..... "
Engr. P'g. Sta., Wm. C. Buell..... "
Artesian wells & Union Lake; one mi. from center distribution; mech. filters, 2,000,000 gal.; chemicals, liquid chlorine, hypochlorite of lime, sulphate of alumina & lime.
Boilers, 3 vert. & hor. 200-hp.; hand stoking; pumps, 4-6,000,000 gal. R. D. W. & Worth.; elec. motors, 75 kw. 1100 v. s. ph. 60 cys. G. E.; pumping to standpipe (1888) iron.
Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 67, hose con. 2½-in.; av. daily cons. 2,000,000 gal.; serv. con. 2100; ord. pres. 50 to 68 lb., fire pres. 60 lb.

MONTCLAIR, 21,550.
MONTCLAIR WATER CO. This is the distributing company for Montclair and is distinct from the Montclair Water Co. of Little Falls, which operates supply, purification & pumping equipment. (Controlled by New Jersey General Security Co., 158 Ellison St., Paterson, N. J. For officers, see Paterson.)
Buy water wholesale from Montclair Water Co. See Little Falls.
Auxiliary pumping equipment; boilers, 4 hor. tubular 125-hp. ea. 2 Smith & 2 Elliott; hand stoking; pumps, 1-4,000,000 gal. Allis-C.; 1-3,000,000 gal. Holly, 1-1,500,000 gal. Snow, 1-1,000,000 gal. Snow; gravity distribution, pumping direct & to standpipe, 2 (1887, 1902) iron.
Pipe, 84.25 mi. 4 to 30-in. c. i. & steel; hyd. 619, hose con. 2½-in. R. D. W., Rensselaer & Fairbanks; valves, 1275 r. h. thd. various; meters, 4560 Neptune; av. daily cons. 1,600,000 gal.; serv. con. 4900; ord. pres. 40 to 165 lb., fire pres. same.
Rates; all meter, min. charge $3 quarter 8000 cu. ft., $2.25 1000 cu. ft. max., $1.50 min.

MOONACHIE, 638.
Supplied by Hackensack Water Co. See New Milford.

MOORESTOWN, 3,000.
MUNICIPAL.
Supt., Wesley Bishop.....Moorestown

Cons. Engr.,
Alexander Potter,.... New York, N. Y.
Wells, 5 tubular 2 & 8-in.; settling basin; mechanical filters, two; filtering area 343 sq. ft.; aeration; boilers, 3; pumps, 3; pumping direct; av. daily cons. 300,000 gal.

MORRISTOWN, 12,507.

THE PROPRIETORS OF MORRIS ACQUEDUCT.
Pres., John O. H. Pitney.....Morristown
V. Pres. & Treas.,
Philander B. Pierson..... "
Sec. & Civil Engr., F. V. Pitney "
Chemist, Lederle Laboratories,
39 W. 38th St., New York, N. Y.
Springs & wells, one open 120 x 200 ft. 10 ft. deep, 8 artesian 5-in. 50 to 65 ft. deep; 1.5 to 5.5 mi. from center distribution; chemicals, none.

Boilers, 4 return tubular 25 to 125-hp. Hewes & Phillips; hand stoking; pumps, 6-2,500,000 gal. Worth., Platt & Goulds; gasoline engines, 2 10 & 30-hp. Nat'l.; gravity distribution, pumping to reservoir, 3-1,140,000 gal. & to standpipe (1888) wrought iron.

Pipe, 59 mi. 4 to 12-in. c. i.; hyd. 247, hose con. 2½ & 4-in. R. D. W.; valves, r. h. thd. Ludlow; meters, 2200 Nat'l., Thomson & Neptune; av. daily cons. 750,000 gal.; serv. con. 2650; ord. pres. 15 to 110 lb., fire pres. same.

Rates; flat, $8 year; meters, 30c. 1000 gal. max., 20c. min.

MORRIS TOWNSHIP, 3,340.

NORMANDY WATER CO.
Pres., J. B. Dickson.....Morristown
V. Pres., Jesse L. Eddy..... "
Treas., Dudley Olcott..... "
Sec., P. H. B. Frelinghuysen... "
Supt., George A. Mills..... "
Chemist, C. A. R. Maier..... "
Wells, 27 artesian 5-in. 60 to 90 ft. deep; 2 mi. from center distribution; reservoir, 435,000 gal.; no purification.

Boilers, 2 tubular 80 & 100-hp. Dover & Oil City; hand stoking; pumps, 3-2,880,000 gal.; one Scranton & 2 Snow; air compressor, Ingersoll-Rand; pumping to standpipe (1894) iron.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. R. D. W.; valves, 89 r. h. thd. Ludlow; meters, 71 Thomson; av. daily cons. 102,000 gal.; serv. con. 71; ord. pres. 50 to 97 lb., fire pres. same.

Rates; all meter, min. charge, $2.50 quarter, $2.50 1000 cu. ft. max., $2 min.

MOUNT HOLLY, 4,500.

MOUNT HOLLY WATER CO.
Pres., B. F. H. Shreve,
406 Commerce St.....Philadelphia, Pa.
V. Pres., Edward H. Stokes..Mount Holly
Sec., Treas. & Gen. Mgr.,
Jas. S. Hulme..... " "
Engr. P'g. Sta., E. L. Everline " "

Impounding reservoirs on Rancocas Creek; 2-1,250,000 gal.; ½ mi. from center business section; coagulating basins, 2 18 x 24 ft.; slow sand filters, 3 N. Y. C. Jewel; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Boilers, 2 return tubular 40 & 80-hp. 65 & 80 lb. Coatesville 1892 & 1912; hand stoking; pumps, 2-1,296,000 gal. Worth. 1892, 2-1,296,000 gal. hor. centrifugal D'Olier 1912 driven by water turbines, 3 30-hp. ea. Alcott; pumping to reservoirs, 1,250,000 gal.

Pipe, 13 mi. c. i.; hyd. 70 mostly Ludlow; valves, 150 mostly Ludlow; meters, 25; av. daily cons. 350,000 gal.; serv. con. 1050; ord. pres. 20 to 45 lb., fire pres. same.

Rates; flat, $6 year, bath $4.50, closet $3.40; meter, min. charge $3 quarter 12,000 gal., 25c. 1000 gal. max., 20c. min.

MOUNTAIN LAKES.

HILLCREST WATER CO. Office, 170 Broadway, New York, N. Y.
Pres., H. M. Burns.....New York, N. Y.
Supt., R. S. Barnes.....Mountain Lakes
Wells, 2 tubular 8-in. 469 & 341 ft. deep; pumps, 1-432,000 gal. triplex Platt; air compressor driven by elec. motor; pumping to stand- pipe, 30,000 gal.; av. daily cons. 20,000 gal.

MULLICA HILL, 446.

HARRISON HEIGHTS IMPROVEMENT CO.
Pres., Edward S. Ireland.....Mullica Hill
V. Pres., C. W. Elkinton..... " "
Treas., Henry L. Haines..... " "
Supt. & Engr. P'g. Sta.,
Clinton Iredell..... " "
Cons. Engr., W. H. Boardman,
426 Walnut St., Philadelphia, Pa.
Wells, 2 artesian 4 & 6-in. 206 ft. deep; ½ & 1 mi. from center distribution; no purification.

Pumps, 1-115,200 gal. Platt driven by water-turbines, 245-hp. Hercules; pumping direct & to elev. tank (1900) 48,000 gal. iron.

Pipe, 1.5 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 3-in. R. D. W.; valves, 7 l. h. thd.; meters, none; av. daily cons. 25,000 gal.; serv. con. 108; ord. pres. 50 to 65 lb., fire pres. same.

Rates; flat, $6 year.

NEPTUNE CITY, 488.

Supplied by Monmouth County Water Co. See Asbury Park.

NETCONG, 1,532.

MUNICIPAL.
Chmn. Comrs., D. S. Drake.....Netcong
Comr., Micheal Barone..... "
" P. M. Chamberlain..... "
Supt., J. W. Thorp..... "
Springs & reservoir; 1.25 mi. from center business section; settling basins, 3-150,000 gal.; slow sand filters, 40,000 gal.

Gravity distribution from reservoir, 36,500 gal.; pipe, 5 mi. 4 to 8-in. c. i.; hyd. 30,

hose con. 2½-in.; valves, 15 r. & l. h. opening; meters, 9 Neptune; av. daily cons. 35,000 gal.; serv. con. 207; ord. pres. 30 to 70 lb., fire pres. same.

Rates; flat, $12 year including bath & closet; meter, 20c. 100 cu. ft.

NEWARK, 347,469.

MUNICIPAL. Board of Street and Water Commissioners.
City Engr., Morris R. Sherrard....Newark
Supt. & Engr.,
George Sanzenbacher..... "

Impounding reservoirs on Pequannock River, 5-9,923,000,000 gal.; sedimentation and aeration; chemical, chlorine gas; gravity distribution from reservoir, 3.

Pipe, 348.2 mi. 4 to 36-in. mostly c. i.; hyd. 3067 mostly Smith & Kennedy; valves, 5635; meters, 24,729; av. daily cons. 42,643,000 gal.; serv. con. 44,772; ord. pres. 25 to 109 lb.

NEW BRUNSWICK, 23,388.

MUNICIPAL.
Comr., Fred Stahlin.....New Brunswick
Supt., Charles H. Morris.. " "

Lawrence Brook; chemicals, liquid chlorine; pumping to reservoir, av. daily cons. 3,545,000 gal.

NEW DURHAM, 1,500.

Supplied by Hackensack Water Co. See New Milford.

NEW EGYPT, 900.

NEW EGYPT LIGHT, HEAT, POWER & WATER CO.
Pres., Mgr. & Cont. Agt.,
Geo. L. Shinn.....New Egypt
V. Pres., Wm. Chambers..... " "
Sec., John Meirs..... " "
Treas., Wm. C. Jones..... " "
Supt., & Engr. P'g. Sta.,
Harry Johnson..... " "

Artesian well, 6-in. 238 ft. deep & one 20 x 32 ft.; aeration.

Pumps, 1-86,400 gal. triplex Platt, 1-360,000 gal. triplex Deming belted to oil engines, 80-hp. De La Vergne; pumping to elev. tower 40,000 gal., av. daily cons. 70,000 gal.

NEW MILFORD.

HACKENSACK WATER COMPANY. Main office, Weehawken, N. J. Supplies Bergenfield, Bogata Carlstadt, Cliffside Park, Closter, Cresskill, Dilford, Demarest, Dumont, E. Rutherford, Edgewater, Emerson, Englewood, Englewood Cliffs, Fairview, Fort Lee, Hackensack, Harrington Park, Hasbrouck Heights, Haworth, Hillsdale, Leonia, Little Ferry, Lodi, Maywood, Moonachie, Norwood, Palisades Park, Palisades Township, Ridgefield, Ridgefield Park, Riverside, Rutherford, Tenafly, Teaneck, Wallington, Westwood & Woodridge, all in Bergen County and Guttenberg, Hoboken, North Bergen, Secaucus, Union Hill, Weehawken, West Hoboken, West New York, in Hudson County.

Pres., Robt. W. de Forest,
30 Broad St., New York, N. Y.
V. Pres., Miles Tierney.....Hoboken
Sec.-Treas., Allen E. Whitman, Weehawken
Supt., David W. French..... "
Ch. Engr. New Milford Plant,
W. J. Smith.....New Milford
Ch. Engr. New Durham Plant,
Charles Moiser.....New Durham
Chemist, G. R. Spaulding....New Milford

Hackensack River & impounding reservoirs, 2-3,900,000,000 gal.; one to 30 mi. from center business section.; settling & coagulating basin; mech. filter, 48,000,000 gal.; chemicals, sulphate of alumina & chloride of lime.

New Milford Sta.: boilers, 2 hor. water-tube 500-hp. 175 lb. Sterling 1905, 4 hor. water-tube 250-hp. 175 lb. Aultman & Taylor 1898; hand stoking; pumps, 1-10,000,000 gal. hor. comp. duplex d. act. Worth. 1892, 1-12,000,000 gal. vert. tri. exp. c. & wh. Allis-C. 1898, 1-18,000,000 gal. vert. tri. exp. c. & f. wh. Allis-C. 1903, 1-20,000,000 gal. vert. tri. exp. c. & f. wh. Allis-C. 1914, 2-28,000,000 gal. centrifugal Allis-C. 1905, 1-36,000,000 gal. hor. centrifugal Allis-C. 1914, both d. con. to Corliss engines.

New Durham Sta.; boilers, 4 hor. water-tube 500-hp. 175 lb. Aultman & Taylor 1905; hand stoking; pumps, 1-10,000,000 gal. vert. tri. exp. c. & f. wh. Allis-C. 1906, 1-20,000,000 gal. vert. tri. exp. c. & f. wh. Allis-C. 1905, 1-12,000,000 gal. vert. tri. exp. c. & f. wh. Allic-C. 1905, 1-14,000,000 gal. vert. tri. exp. c. & f. wh. Allis-C. 1909; pumping direct & to reservoirs, 3-102,500,000 gal.

Pipe, 494 mi. 4 to 54-in. c. i.; hyd., Chapman, Ludlow, O'Brien & Rensselaer; av. daily cons. 29,000,000 gal. 72%; ord. pres. 20 to 125 lb., fire pres. same.

NEW PROVIDENCE, 873.

Supplied by Commonwealth Water & Light Co. See Summit.

NEWTON, 4,467.

MUNICIPAL.
City Pres., R. Tuttle.....Newton
Sec., H. M. Beegle..... "
Treas., Harvey Snook..... "
Engr. P'g. Sta.,
Frederick Bittenbender..... "

Morris Lake; 9 mi. from center distribution; no purification.

Gravity distribution from impounding reservoir, 80,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2-in. Eddy; meters, 500 Thomson; av. daily cons. 500,000 gal.; serv. con. 1000; ord. pres. 40 to 85 lb., fire pres. same.

Rates; flat, min. $6 year; meters, 25c. 1000 gal. max., 5c. min.

NORMANDY HEIGHTS.

NORMANDY WATER CO. Office, Morristown.

Pres., J. B. Dickson.....Morristown
Sec., O. C. Billings..... "
Treas., Dudley Olcott..... "
Supt., George A. Mills..... "
Wells, 27 tubular 6-in. 80 to 90 ft. deep; pumps, 2-288,000 gal. duplex Snow; pumping to standpipe, 300,000 gal.

NORTHFIELD, 866.
Supplied by Pleasantville Water Co. See Pleasantville.

NORWOOD, 564.
Supplied by Hackensack Water Co. See New Milford.

NUTLEY, 6,089.
MUNICIPAL. Buy water from Montclair Water Co. See Little Falls.

OAKLYN, 653.
Supplied by New Jersey Water Service Co. See Haddonfield.

OCEAN CITY, 1,950.
THE OCEAN CITY WATER CO.
Pres., Henry D. Moore.....Haddonfield
V. Pres., D. H. Chandler.....Vineland
Sec., R. W. Edwards..... Ocean City
Treas., W. E. Massey..... " "
Gen. Mgr. & Pur. Agt.,
W. L. Gibb..... " "
Wells,4 tubular 6 to 8-in. 800 ft. deep; near center business section; no purification.
Steam purchased; pumps, 1-3,000,000 gal. L-D-G. 1914, 1-1,500,000 gal. comp. d. act. Bethlehem 1902, 1-1,100,000 gal. comp. duplex act. Deane 1895; air compressors, 2 100 cu. ft. Sweigard steam driven; pumping to standpipe (1898) 188,000 gal.
Pipe, 29.4 mi. 2 to 12-in. c. & w. i.; hyd. 95, hose con. 2½-in. R. D. W.; valves, 125 r. h. opening; meters, 1500 Neptune; av. daily cons. 300,000 gal. 60%; serv. con. 2200, ord. pres. 40 to 55 lb.
Rates; meter, min. charge $10 year 35,000 gal., 30c. 1000 gal. max., 15c. min.

OCEAN GROVE, 2,754.
OCEAN GROVE CAMP MEETING ASSOCIATION.
Wells, 21 tubular 4 to 6-in. 400 to 1050 ft. deep; air compressors; pumps, duplex; pumping to standpipe; av. daily cons. 400,000 gal.

OCEANIC, 689.
Supplied by Tintern Manor Water Co. See Long Branch.

ORANGE, 29,630.
MUNICIPAL.
Supt., Isaac Travis.....Orange
Asst. Supt., H. H. Berg..... "
West Branch of Rahway River; impounding reservoir; pumps, 2-3,000,000 gal. Snow; pumping to reservoir; av. daily cons. 2,400,000 gal.

OXFORD, 2,040.
EMPIRE STEEL & IRON CO.
Mgr., W. H. Decker.....Oxford
Springs, 4; gravity distribution.

PALISADES PARK, 1,411.
Supplied by Hackensack Water Co. See New Milford.

PALMYRA, 1,000.
Supplied by Riverton, Palmyra Water Co. See Riverton.

PASSAIC, 54,773.
ACQUACKANONK WATER CO. Supplies Athenia & Acquackanonk Township. (Controlled by New Jersey General Security Co., 158 Ellison St., Paterson, N. J. For officers see Paterson.)
Supplied by the Montclair Water Co., see Little Falls.
Pipe, 46.5 mi. 4 to 30-in. c. i. & cement; hyd. 482, hose con. 2½-in. various; valves, 578 l. h. thd. Watson & Rensselaer; meters, 3975 Neptune; av. daily cons. 3,960,000 gal.; serv. con. 5619; ord. pres. 44 to 100 lb., fire pres. same.
Rates; meters, min. charge $3 quarter, $2.25 1000 cu. ft. max., $1.75 min.

PATERSON, 125,600.
PASSAIC WATER CO. (Controlled by the New Jersey General Security Co., 158 Ellison St., Paterson, N. J.) The following are officers of the New Jersey General Security Co.:
Pres., Geo. F. Baker,
258 Madson Ave., New York, N. Y.
V. Pres., E. LeB. Gardner.....Paterson
Treas., Whitney Conant..... "
Sec., Albert P. Fisher..... "
Gen. Supt. & Des. Engr.,
A. W. Cuddeback..... "
Supplied by Montclair Water Co. See Little Falls.
Distribution by direct pressure and from reservoir, 150,000 gal.
Pipe, 150.4 mi. 4 to 42-in. c. i., cement & steel; hyd. 1485, hose con. 2½-in. various; valves, 2232 r. h. thd. Watson & Rensselaer; meters 8858 Neptune; av. daily cons. 9,000,000 gal.; serv. con. 15,000; ord. pres. 20 to 80 lb., fire pres. same.
Rates; meter, min. charge $3 quarter, $2.25 1000 cu. ft. max., $0.75 min.

PAULSBORO, 2,121.
PAULSBORO WATER CO.
Sec., B. G. Paul.....Paulsboro
Wells, 5 tubular 4 & 6-in. 63 to 65 ft. deep; pumps, 2 triplex Deane driven by gasoline engines, 2 30-hp.; pumping to standpipe; av. daily cons. 96,000 gal.

PEDRICKTOWN, 500.
Supplied by Pennsgrove Water Supply Co. See Pennsgrove.

PEMBERTON, 797.
PEMBERTON TOWNSHIP WATER, SEWERAGE & LIGHT CO.

Pres., Isaac W. Budd.....Pemberton
V. Pres., Wm. H. Heisler..... "
Sec., James B. Hankins..... "
Treas., J. G. Montgomery..... "

Rancocos Creek; ½ mi. from center distribution; no purification.

Pumps, 1-172,800 gal. Goulds; pumping direct & to standpipe (1894) 93,000 gal. iron.

Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 86, hose 2½-in. Ludlow; meters, none; av. daily cons. 40,000 gal.; serv. con. 140; ord. pres. 35 lb., fire pres. 75 lb.

Rates; flat, $5 year.

PENNINGTON, 722.

PENNINGTON SPRING WATER CO.
Pres., F. L. Bar.....Pennington
V. Pres., S. F. Sharp..... "
Sec., J. C. Burm..... "
Treas. & Supt., Oliver B. Gray. "
Eng. P'g. Sta., M. W. Chatten. "

Springs & wells, 2 artesian 6-in. 159 to 180 ft. deep; 2 mi. from center distribution; reservoir, 150,000 gal.; no purification.

Pumps, 1-72,000,000 gal. driven by gasoline engines, 4 & 18-hp. Zweigard; air compress. 18-hp.; pumping to reservoir, 239,000 gal.

Meters, 100 Crane; serv. con. 200; ord. pres. 20 lb.

Rates; flat, $7 year, bath $4, closet $2.

PENNSGROVE, 2,118.

PENNSGROVE WATER SUPPLY CO. Supplies Pedricktown.
Gen. Mgr., J. A. Rigginn,
603 Market St., Camden, N. J.
Supt., F. H. Elliott.....Pennsgrove
Cons. Engr., W. H. Boardman,
426 Walnut St., Philadelphia, Pa.

Wells, 4 tubular 6-in. 165 ft. deep; 4.5 mi. from center distribution; settling basin, 70,000 gal.; mech. filters, 350,000 gal.; chemicals, none.

Pumps, 3-864,000 gal. Goulds & F. M. driven by gasoline engines, 2 40-hp. F. M.; pumping to standpipe(1905) iron.

Pipe, 12 mi. 4 to 12-in; hyd. 84, hose con. 2 & 4-in. R. D. W. & Rensselaer; meters, 156 various; av. daily cons. 125,000 gal.; serv. con. 500; ord. pres. 40 to 54 lb.

Rates; meter, min. charge, $15 30,000 gal.; 25c. 1000 gal.

PERTH AMBOY, 320,121.

MUNICIPAL. Supplies South Amboy and Teasby.
Mayor, Ferd. Garretson.....Perth Amboy
Pres. Comrs.,
Chas. D. Snedeker ..... " "
Comr., W. P. Runyon..... " "
" Wm. P. Nolan..... " "
" Thos. Grieve..... " "
" C. C. Sibley..... " "
Supt., A. H. Crowell..... " "

Ground storage wells located at Runyon.

Pumps, 3 Snow, Worth. & Wisconsin; pumping direct & to standpipe.

Pipe, 59.8 mi. 2 to 24-in. c. i.; hyd. 318; valves, 371; av. daily cons. 7,160,000 gal.; ord. pres. 30 to 70 lb.

PHILLIPSBURG, 13,903.

THE PEOPLES WATER CO.
Supt & Engr. P'g. Sta.,
A. A. Stryker,.....Phillipsburg.

Spring; ¾ mi. from center distribution; no purification.

Boilers, 4 return tubular 500-hp.; hand stoking; pumps, 3-10,000,000 gal.; pumping to reservoir, 2,000,000 gal.

Pipe, 22 mi. 4 to 30-in. c. i.; hyd. 105, hose con. 2½-in. Ludlow; valves, Ludlow; av. daily cons. 1,600,000 gal.; serv. con. 2000; ord pres. 35 to 110 lb., fire pres. same.

LOPATCONG WATER CO.
Sec., S. C. Smith.....Phillipsburg

Impounding reservoir on Merrill's Brook; gravity distribution; av. daily cons. 809,000 gal.

Partly supplied by the Lehigh Water Co. See Easton, Pa.

PISCATAWAY TOWNSHIP.

Supplied by Middlesex Water Co. See So. Plainfield.

PITMAN, 1,950.

PITMAN WATER CO.
Sec. & Treas., Miss E. E. Rulon....Pitman

Well, 8-in. 235 ft. deep; pump driven by gas engine, 21-hp. Otto; pumping to reservoir, 50,000 gal. & to elev. tank, 30,000 gal.; av. daily cons. 45,000 gal.

New Jersey Conference Camp Meeting Association.
Supt., David H. Schock.....Pitman

Well, 180 ft. deep; air lift; pumping to standpipe, 93,000 gal.; av. daily cons, 45,000 gal.

PLAINFIELD, 20,550.

PLAINFIELD-UNION WATER CO. Office, 175 North Ave. Supplies Cranford, Fanwood, Garwood, Roselle Park & Westfield.
Pres., Frank Bergen.....Newark
V. Pres., H. F. Kean,
30 Pine St., New York, N. Y.
Sec. & Treas., W. J. Whelan.....Plainfield
Supt., Amos Andrews..... "

Wells, 39 tubular 6 to 10-in. 70 to 500 ft. deep; 1.5 mi. from center business section; no purification.

Boilers, 3 hor. tubular 150-hp. ea. Tippett & Wood, one 396-hp. B. & W.; hand stoking; pumps, 2-13,000,000 gal. vert. tri. exp. d. act. Worth., 1-6,000,000 gal. vert. tri. exp. d. act. R. D. W.; air compressors, 3 Ingersoll-Rand steam driven; elec. motors, one 2-hp. 220 v. s. ph. Crocker-Wheeler; pumping to reservoir, 9,000,000 gal. & standpipes, 2-1,300,000 gal.

Pipe, 169 mi. 4 to 24-in. c. i.; hyd. 972, hose con. 2½-in. Ludlow, R. D. W. & Rens-

selaer; valves Ludlow & Rensselaer; meters, 1,447 National; av. daily cons. 6,000,000 gal.; serv. con. 12,000; ord. pres. 60 to 90 lb., fire pres. same.

Rates; flat, $6 year, bath $4, closet $5; meters, min. charge $3 quarter, $1.88 1000 cu. ft. max., $1.25 min.

PLEASANTVILLE, 4,390.

PLEASANTVILLE WATER CO. Supplies Absecon, Linfield, Northfield and Somers Point.

Supt., James T. Austin.....Pleasantville

Bargaintown Pond; pumping direct & to standpipe, 300,000 gal.; av. daily cons. 250,000 gal.

POINT PLEASANT, 1,003.

POINT PLEASANT WATER WORKS CO.

Pres., L. C. Ritchie.....Belmar
Sec. & Treas., H. C. Schanze, Jr.... "
Gen. Mgr., Jos. Mayer..... "
Pur. Agt., A. H. Osborn..... "

Wells, 6 tubular 12-in. 28 ft. deep; one mi. from business center; no purification.

Boiler, vert. 50-hp. 100 lb. Coatesville 1909; pumps, 1-250,000 gal. hor. s. d. act. Niagara, 1-500,000 gal. hor. comp. Worth. 1-500,000 gal. hor. comp. Worth. 1909, 1-1,100,000 gal. vert. triplex 1914 geared to gas engine, 60-hp. Otto 1914, 1-500,000 gal. hor. centrifugal Deane 1914 d. con. to elec. motor, 25-hp. 220 v. 60 cys. G. E. 1914; elec. energy from Point Pleasant Electric Co.; pumping to standpipe (1912) 225,000 gal. & elev. tank 40,000 gal. wood.

Pipe, 5.5 mi. 4 to 12-in. c. i.; hyd. 61, hose con. 3-in. R. D. W.; valves, 72 l. h. opening R. D. W.; meters, 12 Pittsburgh; av. daily cons. 230,000 gal. 85%; serv. con. 420; ord. pres., fire pres. same.

Rates; meter, min. charge $7.50 year, 20,000 gal., 35c. 1000 gal.

PRINCETON, 5,136.

PRINCETON WATER CO.

Pres., Edward Howe.....Princeton
V. Pres., Henry W. Green..... "
Treas. & Supt., H. D. Eldridge.. "

Wells, 4 tubular 8 & 10-in. 300 to 500 ft. deep; 2 mi. from center distribution; no purification.

Boilers, 4 hor. & vert. tubular 325-hp. Tippitt & Wood, Thropp, Coatesville & Dillon; hand stoking; pumps, 3-2,000,000 gal. Davidson & Deane; air compressors, 3 I.-D-G., Dayton & Ingersoll-Rand; pumping to elev. tank, 142,000 gal. iron.

Pipe, 17.6 mi. 4 to 12-in. c. i.; hyd. 97, hose con. 2½-in. Eddy & Rensselaer; meters, 1475 various; av. daily cons. 400,000 gal.; serv. con. 1250; ord. pres. 38 to 75 lb., fire pres. same.

Rates; all meter, 35c. 1000 gal. max., 20c. min.

QUINTON, 800.

Supplied by City of Salem.

RAHWAY, 9,367.

MUNICIPAL.

Mayor, & Comr., T. A. Fyffe.....Rahway
Pres. Comrs., F. W. Langstroth... "
Comr., Wm. A. Ransom..... "
" Frank H. Plum..... "
" F. W. Frank..... "
Supt., A. F. Kirstein..... "
Engr. P'g. Sta., David Gage..... "
Cons. Engr. & Chemist, N. S. Hill, Jr., 100 William St., New York, N. Y.

Rahway River; one mi. from center distribution; coagulating basin, 50 x 119 x 12 ft.; mechanical filters, 8-500,000 gal. ea.; chemicals, sulphate of alumina & hypochlorite of lime.

Boilers, one 250-hp. Edge Moor, 2 100-hp. Coatesville; hand stoking; pumps, 1-5,000,000 gal. Snow, 2-1,500,000 gal. ea. Worth., 1-1,000,000 gal. Worth.; pumping to standpipe(1906) steel.

Pipe, 23.25 mi. 4 to 12-in. c. i. & cement; hyd. 181, hose con. 2½-in. R. D. W. & Rensselaer; valves, 231 l. h. thd. Whittier, Eddy & Rensselaer; meters, 180 Neptune; av. daily cons. 1,800,000 gal.; serv. con. 1908; ord. pres. 43 to 46 lb.

Rates; flat, $6 year, bath $5, closet $3; meter, min. charge $1 quarter, $1.50 1000 cu. ft. max., 40c. min.

RAMSEY, 1,667.

MUNICIPAL. Supplies Allendale.

Chmn. Comrs., Otto Saalfeld.....Ramsey
City Clerk, H. R. Parvin..... "
Engr. P'g. Sta., Edgar Sasse..... "

Well, 20 ft. in diam. 25 ft. deep; pumping to reservoir, 1,200,000 gal.

Pipe, 12 mi. 4 to 10-in. c. i.; hyd. 104, Eddy; meters, 105 Thomson; av. daily cons. 10,000 gal.; serv. con. 105; ord. pres. 60 to 85 lb., fire pres. same.

Rates; meter, $6 year 24000 gal. 25c. 1000 gal.

RARITAN, 3,672.

SOMERVILLE WATER CO. Supplies Somerville.

Supt., Charles Wycoff.....Raritan

Raritan River; mechanical filters, 3-500,000 gal ea., 4-400,000 gal. ea. pres. Hyatt; chemical, hypochlorite of lime; pumping direct; av. daily cons. 1,900,000 gal.

RARITAN TOWNSHIP, *2,700.

MIDDLESEX WATER CO. Office, Elizabeth. For officers, see South Plainfield.

Wells; no purification.

Distribution from standpipes, 2 steel; pipe, 4.5 mi. 4 to 12-in. c. i.; meters, 27 Neptune; serv. con. 27; ord. pres. 60 lb., fire pres. same.

Rates; meter, 25c. 100 cu. ft.

RED BANK, 7,398.

Supt., Alexander Cooper.....Red Bank

Wells, one open 75 ft. deep & 3 tubular 260 ft. deep; air lift; av. daily cons. 300,000 gal.

RIDGEFIELD, 966.
Supplied by Hackensack Water Co. See New Milford.

RIDGEFIELD PARK, 1,950.
Supplied by Hackensack Water Co. See New Milford.

RIDGEWOOD, 5,416.
BERGEN AQUEDUCT CO.
Pres., C. K. Corbin.....Ridgewood
Treas., Frank Bergen..... "
Supt., R. M. Kellogg..... "
Wells, 11 tubular 12-in. 75 to 200 ft. deep; no purification.
Boilers, 4 100-hp.; pumps, 4-1,500,000 gal. Worth.; pumping direct & to standpipe, 3 (1900) iron.
Pipe, 48 mi. 4 to 12-in. c. i.; hyd. 185, hose con. 2½-in.; valves, 289 Eddy; meters, 43 various; av. daily cons. 1,000,000 gal.; serv. con. 1948; ord. pres. 55 to 110 lb.
Rates; flat, $6 year, bath $4, closet $5; meters, 35c. 1000 gal. max.

RIVERSIDE, 736.
Supplied by Hackensack Water Co. See New Milford.

RIVERTON, 1,788.
RIVERTON & PALMYRA WATER CO. Supplies Palmyra.
Sec., Howard Parry.....Riverton
Wells, 13 ft. diam. 21 ft. deep & one 8-in. 32 ft. deep; pumps, 2-1,000,000 gal., 1-2,500,000 gal.; pumping to standpipe; av. daily cons. 562,000 gal.

ROCKAWAY, 1,902.
MUNICIPAL.
Chmn. Comrs.,
Arthur Beardwood.....Rockaway
Comr., Edw. T. Davey..... "
" Arthur J. Yetter..... "
Clerk, J. B. May..... "
Springs; 2½ mi. from center distribution; chemical, copper sulphate.
Gravity distribution from reservoir, 1,250,000 gal.
Pipe, 10 mi. 4 to 12-in.; hyd. 70, hose con. 2½-in. Eureka; valves, 20 r. h. thd. Ludlow; meters, 25 various; av. daily cons. 50,000 gal.; serv. con. 230; ord. pres. 40 lb., fire pres. 110 lb.
Rates; flat $6 year, bath $2, closet $2; meters, min. charge, $12 year, 25c. 1000 gal. max., 12c. min.

ROEBLING, 900.
JOHN A. ROEBLING'S SONS CO. Office, Trenton, N. J.
Pres., C. G. Roebling.....Trenton
V. Pres., W. A. Roebling..... "
Sec. & Treas., F. W. Roebling..... "
Supt., Frank W. Bunn.....Roebling
Chemist, Wm. Gummere..... "
Delaware River; 3000 ft. from center distribution; settling and coagulating basins, 28,500 gal.; mechanical filters, 500,000 gal.; chemicals, hypochlorite of lime and sulphate of alumina.
Boilers, 16 water-tube 500-hp. ea. B. & W.; hand stoking; pumps, 1-500,000 gal. Worth., 1-750,000 gal. Worth.; 1-2,000,000 gal. Wilson & Snyder, 1-720,000 gal. Underwriters, 1-1,440,000 gal. Underwriters, 1-2,160,000 gal. Underwriters, 1-4,000,000 gal. Wilson & Snyder, 3-2,000,000 gal. ea. Worth.; pumping to standpipes, 3(1905, 1913) steel.
Pipe, 8.2 mi. 4 to 30-in. c. i.; hyd. 100, hose con. 2½-in. R. D. W.; meters, none; av. daily cons. 250,000 gal.; serv. con. 540; ord. pres. 30 lb., fire pres. 100 lb.
Rates; included in rental of houses.

ROOSEVELT, 5,786.
MIDDLESEX WATER CO. Office, Elizabeth. For officers see South Plainfield.
Wells & reservoir; no purification.
Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 2½-in. R. D. W. & Rensselaer; meters, 800 Neptune; serv. con. 850; ord. pres. 75 lb., fire pres. same.
Rates; meter, 25c. 100 cu. ft.

ROSELAND, 486.
Supplied by Essex Fells Electric Light & Water Co. See Essex Fells.

ROSELLE PARK, 3,138.
Supplied by Plainfield-Union Water Co. See Plainfield.

RUMSON, 1,449.
Supplied by Tintern Manor Water Co. See Long Branch.

RUTHERFORD, 7,045.
Supplied by Hackensack Water Co. See New Milford.

SALEM, 6,614.
MUNICIPAL.
Mayor, Robert Gwynne.....Salem
Comr., David Ayars..... "
" Casper Hitchner..... "
Supt., Chas. W. Dunn..... "
Engr. P'g. Sta., Dennis Ryan..... "
Wells, 16 tubular 6 & 8-in. 135 to 281 ft. deep; 4 mi. from center distribution; reservoir, 350,000 gal.; no purification.
Boilers, 2 100-hp. Petty; hand stoking; pumps, 4-1,500,000 gal. Holly; pumping direct.
Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 82, hose con. 2½-in. R. D. W. & Thompson; meters, 2 Pittsburgh; av. daily cons. 618,000 gal.; serv. con. 921; ord. pres. 40 lb., fire pres. 100 lb.
Rates; flat, $5 year, bath $3, closet $2; meters, 8c. 1000 gal. max., 6c. min.

SEABRIGHT, 1,220.
Supplied by Tintern Manor Water Co. See Long Branch.

SEASIDE HEIGHTS, *500.
PENINSULA WATER CO.
Supt., J. Milton Slim.....Seaside Heights
Engr. P'g. Sta.,
Jos. K. Johnson..... " "
Artesian well, 6-in. 600 ft. deep; ½ mi. from center distribution.
Pumps, driven by gasoline engine, 12-hp. Gilson; pumping to elev. tank (1912) 30,000 gal. wood.
Hyd. 42, hose con. 2½-in. Quaker City; valves, r. h. thd.; av. daily cons. 30,000 gal.; serv. con. 75; ord. pres. 45 lb., fire pres. same.

SECAUCUS, 4,740.
Supplied by Hackensack Water Co. See New Milford.

SOMERS POINT, 604.
Supplied by Pleasantville Water Co. See Pleasantville.

SOMERVILLE, 5,060.
Supplied by Somerville Water Co. See Raritan.

SOUTH AMBOY, 7,007.
Supplied by city of Perth Amboy.

SOUTH BOUND BROOK, 1,024.
Supplied by Bound Brook Water Co. See Bound Brook.

SOUTH CAPE MAY.
Supplied by city of Cape May. See Cape May.

SOUTH ORANGE, 6,014.
Supplied by Commonwealth Water & Light Co. See Summit.

SOUTH PLAINFIELD, 175.
MIDDLESEX WATER CO. Office, Elizabeth. Supplies Metuchen, Woodbridge Township, Piscataway Township, Roosevelt & Raritan Township.
Pres., Frank Bergen.....Elizabeth
V. Pres., E. C. Woodruff..... "
Sec. & Treas., Foster M. Voorhees "
Supt., Ambrose Mundy..... "
Wells, 20 artesian 6 to 12-in. 300 ft. deep; 10 mi. from center business section; impounding reservoir, 1-30,000,000 gal.; slow sand filter, 300,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.
Boilers, 4 tubular 500-hp. Erie & Ames; hand stoking; pumps, 6 comp. Worth.; pumping to standpipe.
Pipe, 4.25 mi. 4 to 12-in. c. i.; hyd. 15, hose con. 2½-in. Rensselaer & Darling; meters, 50 Neptune; serv. con. 50; ord. pres. 60 to 90 lb., fire pres. same.
Rates; meter, 25c. 100 cu. ft.

SOUTH RIVER, 4,772.
MUNICIPAL.
Supt., C. S. Partridge.....South River
Well, 20 ft. diam. 35 ft. deep; pumps, 2 5-in. centrifugal; pumping to standpipe; av. daily cons. 40,000 gal.

SPRING LAKE, 853.
MUNICIPAL.
Comr., G. M. Height.....Spring Lake
" W. G. Schonch..... " "
" H. Getsinger..... " "
Clerk, E. V. Patterson..... " "
Supt., Edward White..... " "
Engr. P'g. Sta., Frank Judge.. " "
Wells, 7 artesian 6-in. 700 ft. deep; ½ mi. from center business section; reservoir, 250,000 gal.; no purification.
Boilers, 3 return tubular 150-hp. ea. 150 lb. Keeler 1912, one 125-hp Keeler 1904; pumps, 2-250,000 gal. hor. tri. exp. McGowan 1912; air compressors, 550 & 1150 Sweigard 1912 steam driven; pumping to elev. tanks, 2 (1898, 1894) 130,000 gal. wood & iron, Chicago Bridge & Iron Co.
Pipe, 26 mi. 4 to 10-in. c. i.; hyd. 120, hose con. 2½-in. R. D. W. & Eddy; valves, 74 r. h. opening Kennedy & Eddy; meters, 30 Hersey, Pittsburgh & National; av. daily cons. 280,000 gal.
Rates; flat, $7.50 bath $1.25, closet $1.50; meter, min. charge $15 year 50,000 gal., 35c. 1000 gal. max., 18c. min.

STANHOPE, 1,031.
MUNICIPAL.
Pres., Comrs., R. M. Inscho.....Stanhope
Sec., Sarah B. Lewis..... "
Engr. P'g. Sta., A. J. Frame..... "
Wells, 3 tubular 6 to 10-in. 50 to 90 ft. deep; one mi. from center business section; no purification.
Pump driven by gas engines, 8 & 20-hp. F. M. 1913; pumping to reservoir, 150,000 gal.
Pipe, 2.5 mi. 4 to 8-in. c. i.; hyd. 30, hose con. 3-in.; valves, 20 r. & l. h. opening; meters, 32 Neptune & Thomson; serv. con. 93; ord. pres. 60 to 90 lb., fire pres. same.
Rates; flat, $12 year; meter, min. charge $10 year 35,000 gal., 27c. 1000 gal.

STOCKTON, 605.
MUNICIPAL.
Borough Clerk,
P. E. Rockefellow,.....Stockton.
Wells, 2 artesian 6-in. 150 ft. deep; pumps driven by gasoline engine and windmill; pumping to reservoir; av. daily cons. 1,600 gal.

STRATHMERE, *250.
CORSONS INLET WATER CO.
Pres. & Supt., C. B. Winters...Strathmere
Sec. & Treas., A. H. Holcombe.. "
Artesian well, 834 ft. deep; near center distribution; no purification.
Pumps, 1-144,000 gal. triplex Goulds belted to gasoline engine, 5-hp. Otto; pumping to elev. tank, 22,500 gal. wood.
Pipe, 1.75 mi. 2 to 3-in. galv. & wrought iron; hyd. 6, hose con. 2-in.; valves, 15 r. h. thd. Jenkins; meters, 2 Standard; av. daily cons. 30,000 gal.; serv. con. 45; ord. pres. 30 lb., fire pres. 60 lb.

Rates; meter, min. charge $20 30,000 gal., 30c. 1000 gal.

SUMMIT, 7,500.

COMMONWEALTH WATER & LIGHT COMPANY. Office, 19 Beechwood Rd. Supplies Millburn, New Providence & South Orange.
Pres., C. P. Bassett.....Summit
V. Pres., Fred R. Drake.....Easton, Pa.
Sec., Gen. Mgr. & Pur. Agt.,
F. C. Kimball.....Summit
Supt., Fred'k Green..... "
Engr. P'g. Sta., W. R. Arrell...Chatham

Wells, 2 open 30 ft. diam. 25 ft. deep, 4 4ft diam. 25 ft. deep, 31 tubular 6 & 8-in. 80 to 300 ft. deep; 2 mi. from center business section; no purification.

Boilers, 2 hor. return tubular 60-hp. ea. 80 lb. Hewes 1890, 2 150-hp. ea. 140 lb. B. & W. 1912; hand stoking; pumps, 1-875,000 gal. Worth. 1890, 1-1,000,000 gal. Snow 1895, 1-1,500,000 gal. Worth. 1912, 1-2,000,000 gal. Worth. 1904 all hor. comp. d. act., 1-2,000,000 tri. exp. d. act. Worth. 1906, 1-2,000,000 gal. hor. centrifugal Jeanesville 1912 d. con. to steam turbine, 80-hp. Kerr 1912; air compressors for air lifts, 400 cu. ft. Sweigard 1910, 400 cu. ft. Sullivan 1914, 175 cu. ft. Ingersoll-Rand 1912, 80 cu. ft. Ingersoll-Sargeant 1904, all steam driven; pumping to reservoirs, 2-1,250,000 gal. & standpipes, 2 (1890, 1907) 299,000 gal.

Pipe, 87.9 mi. 4 to 20-in. c. i.; hyd. 416, hose con. 2½-in. R. D. W.; meters, 2,900; av. daily cons. 2,225,000 gal. 76%; serv. con. 3300; ord. pres. 40 to 175 lb., fire pres. same.

Rates; flat, $16.50 including bath & closet; meter, min. charge $2 quarter 1000 cu. ft., 25c. 1000 gal. max., 15c. min.

SUSSEX, 1,212.

MUNICIPAL.
Mayor, Frank Holbut.....Sussex
Supt., S. F. Quince..... "

Lake Rutherford; 5.5 mi. from center distribution; no purification.

Gravity distribution from reservoir, 2,500,000 gal.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. R. D. W.; valves, 34 r. h. thd. Warren; meters, 4 Neptune; av. daily cons. 85,000 gal.; serv. con. 350; ord. pres. 125 lb., fire pres. 50 lb.

SWEDESBORO, 1,477.

WOOLWICH WATER COMPANY.
Pres., M. W. Pharo,
Bourse Bldg., Philadelphia, Pa.

Wells, 3 artesian, 6-in. 138 ft. deep & 8-in. 150 ft. deep; pumps, 3 triplex; pumping to standpipe; av. daily cons. 115,000 gal.

TENAFLY, 3,756.

Supplied by Hackensack Water Co. See New Milford.

TOMS RIVER, 1,800.

TOMS RIVER WATER COMPANY.
Pres., S. C. Bailey, Jr.....Toms River
Sec., S. R. Applegate.....Toms River
Treas., Henry A. Low..... " "
Supt., Edw. E. Snyder..... " "

Wells, 4 tubular 6-in. 38 ft. deep; ½ mi. from business center; no purification.

Pumps, 2-250,000 gal. vert. triplex. d. con. to gas engines, 2 20-hp. ea. National 1899; pumping to elev. tank (1899) 60,000 gal. iron, Tippitt & Wood.

Pipe, 5 mi. 2 to 8-in. c. & w. i.; hyd. 44, hose con. 2½-in. Kennedy & Rensselaer; valves, 61 r. h. opening Kennedy; meters, 7 National; av. daily cons. 60,000 gal. 95%; serv. con. 316; ord. pres. 50 to 60 lb., fire pres. same.

Rates; flat, $6 year, bath $3, closet $2; meter, 30c. 1000 gal. max., 15c. min.

TRENTON, 96,815.

MUNICIPAL.
Director J. R. Fell.....Trenton
" Edward W. Lee..... "
" W. F. Burk..... "
Treas., D. F. Wittenborn..... "
Supt., Alvin Bugbee..... "

Delaware River; one mi. from center distribution; impounding reservoir, 110,000,000 gal.; settling and coagulating basins, 2-2,000,000 gal.; mechanical filters, 6-3,000,000 gal.; chemicals, liquid chlorine & sulphate of alumina.

Boilers, 5 1260-hp. 2 water-tube Heine & 3 return tubular Thropp; hand and mechanical stoking; 2 Wetzel; pumps, 1-10,000,000 gal. Ellis, 1-15,000,000 gal. Barr, 1-20,000,000 gal. R. D. W.; gasoline engine, 2 35-hp. ea. National; elec. motors, 90 kw. 230 v. d. c. elec. energy from turbo-generators, 2 300 kw. De Laval; pumping to; reservoir, 120,000,000 gal. & standpipe (1907) steel.

Pipe, 148.7 mi. 4 to 30-in. c. i.; hyd. 1074, hose con. 3½-in. Rensselaer, Chapman, R. D. W. & Iowa; valves, 1731 r. h. thd. Rensselaer & Ludlow; meters, 200 Hersey, Neptune, Thomson; av. daily cons, 19,000,000 gal.; serv. con. 23,000; ord. pres. 20 to 32 lb., fire pres. same.

Rates; flat, $6 year, bath $3, closet $3.

TUCKERTON, 1,268.

TUCKERTON WATER COMPANY.
Pres., M. W. Pharo,
Bourse Bldg.....Philadelphia, Pa.

Cedar Swamp River; pumps, one tripplex & one single double act.; pumping to standpipe; av. daily cons. 60,000 gal.

UNION, HUDSON COUNTY, 21,023.

Supplied by Hackensack Water Co. See New Milford.

UNION, UNION COUNTY, 201.

Supplied by Elizabethtown Water Co. See Elizabeth.

VENTNOR, *1,500.

MUNICIPAL.
Chmn. Comrs., I. B. Sweigart.....Ventnor

Comr., F. J. Clark.....Ventnor
" Geo. A. Gumphert..... "
Sec., E. S. Royal..... "
Supt. & Engr. P'g. Sta.,
E. H. Gaskill..... "

Wells, 4 artesian 6 & 8-in. 815 to 825 ft. deep; near center distribution; reservoir, 40,000 gal.; no purification.

Boilers, one water-tube 240-hp. Keeler, one tubular 140-hp. Ames; hand stoking; pumps, 2-1,440,000 gal. Worth.; air compressors, 2 Sweigard; pumping to standpipe (1906) 200,000 gal. iron.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd.; 116, hose con. 2½ & 4-in. Rensselaer & Pratt & Cady; meters, 4 Hersey; serv. con. 807; ord. pres. 30 to 40 lb., fire pres. same.

Rates; flat, 25c. ea. $100 assessed valuation of all lands, whether improved or unimproved.

VERONA, 1,675.

Supplied by Essex Fells Elec. Light & Water Co. See Essex Fells.

VINCENTOWN, 804.

VINCENTOWN WATER CO.
Pres., J. Ellis Irick.....Vincentown
V. Pres., Dr. J. C. Brown..... "
Sec. & Treas., Wm. B. Ress.... "
Supt., Fred Kumpf..... "
Des. Engr., A. E. Alcott..... "
Engr. P'g. Sta., Robert Rambo. "

Rancocas Creek; one mi. from center distribution; no purification.

Pump driven by gasoline engines, 2 Otto; pumping to standpipe (1896) 86,000 gal. iron.

Hyd. 20 Thompson; valves, 2. h. thd.; meters, none; serv. con., 250; ord. pres. 45 lb.

VINELAND, 5,282.

MUNICIPAL.
Supt., Chas. W. Sinley.....Vineland
Clerk, J. C. Van Keuren..... "
Engr. P'g. Sta., Sam'l Tregale... "
Chemist, H. L. Reber..... "

Wells, artesian 12 3 to 6-in. 90 to 150 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 3 return tubular 150-hp. Coatesville; pumps, 2 steam & one electric; electric motors, 220 kw. 2 ph. 60 cys.; elec. energy from municipal plant; pumping to elev. tanks, steel.

Pipe, 10 mi. 4 to 12-in.; hyd. 130, hose con. 2½-in. Rensselaer; meters, 800 mostly Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 2000; ord. pres. 40 to 60 lb., fire pres. 60 to 80 lb.

Rates; all meter, min. charge $6 year, 25c. 1000 gal. max., 11c. min.

WALLINGTON, 3,448.

MUNICIPAL.
Mayor, John McMahon.....Wallington
Chmn. Comrs., Arthur Krug... "
Water Clerk, A. J. Prall..... "
Cons. Engr., A. L. Pettersen.....Passaic

Wells, 2 artesian 8-in. 265 ft. deep; one mi. from center business section.

Pumps, 2-220,000 gal. vert. triplex steam 1901 geared to gasoline engine, 2 25-hp. ea. National 1901, 1-220,000 gal. vert. triplex Goulds 1914 d. con. to elec. motor, 25-hp. 220 v. 2 ph. 60 cys. Sprague 1914; elec. energy from Public Service Corporation of Rutherford; pumping to standpipe (1901) 220,000 gal.

Pipe, 7 mi. 3 to 10-in. c. i.; hyd. 39, hose con. 2½-in. Rensselaer; valves, r. & l. h. thd. Eddy, Crane & Kennedy; meters, 480 National; av. daily cons. 200,000 gal.; serv. con. 500; ord. pres. 55 to 75 lb., fire pres. same.

Rates; flat, $6 year; meters, min. charge $6 year 20,000 gal.

WASHINGTON, 3,567.

WASHINGTON WATER CO.
Pres., Johnston Cornish.....Washington
Treas., Daniel Spangenbery.... "
Sec. & Supt., Joseph E. Fulper. "

Mountain stream; 2.75 mi. from center distribution; no purification.

Gravity distribution from reservoir, 750,000 gal.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½-in.; valves, l. h. thd.; meters, 12 National; ord. pres. 80 lb.

Rates; flat, min. $6; meters, 10c. 1000 gal.

WEEHAWKEN, 11,228.

Supplied by Hackensack Water Co. See New Milford.

WENONAH, *750.

MUNICIPAL.
Chmn. Comrs., Elmer R. Reyno..Wenonah
Comr., Wm. P. Cox..... "
" J. L. Drummer..... "
Supt., G. C. Grosscup..... "
Engr. P'g. Sta., E. S. Price..... "

Wells, 6 artesian 3-in. 200 ft. deep; ½ mi. from center business section; no purification.

Boiler, hor. tubular 70-hp. 75 lb. Erie 1895; pumps, 3-hor. comp. d. act. Worth. 1895; pumping to standpipe (1886) 132,000 gal.

Pipe, 6 mi. one to 10-in. c. & galv. iron; hyd. 34, hose con. 2½-in. R. D. W.; valves, 14; meters, 225 Standard & Worth.; av. daily cons. 57,000 gal. 33%; serv. con. 225; ord pres. 40 to 50 lb., fire pres. same.

Rates; meter, min. charge $20 year 50,000 gal.

WEST CAPE MAY, 844.

Supplied by city of Cape May.

WEST HOBOKEN, 35,403.

Supplied by Hackensack Water Co. See New Milford.

WEST NEW YORK, 13,560.

Supplied by Hackensack Water Co. See New Milford.

WEST ORANGE, 10,980.

WEST ORANGE WATER CO. Office, Summit.
Pres., F. R. Drake.....Easton, Pa.
Sec., Gen. Mgr. & Pur. Agt.,
F. C. Kimball..... Summit
Tres. & Des. Engr.,
C. P. Bassett..... "
Local Supt., P. H. Glannon...West Orange

Buy water from Montclair Water Co. See Little Falls.

Distribution from standpipe, 244,000 gal., owned by Montclair Water Co.; hyd. 294, hose con. 2½-in.; meters, 1911 various; av. daily cons. 791,000 gal. 75%; serv. con. 1936; ord. pres. 25 to 175 lb., fire pres. same.

Rates; meter, min. charge $5.50 year 2750 cu. ft., 20c. 100 cu. ft. max., 15c. min.

WESTFIELD, 6,420.

Supplied by Plainfield-Union Water Co. See Plainfield.

WESTVILLE, 250.

WESTVILLE & NEWBOLD WATER CO. Supplies West Deptford Township. (Controlled by American Pipe & Construction Co., 112 N. Broad St., Philadelphia, Pa. For officers, see Clayton.)
Supt., E. M. Fisher.....Westville

Wells, 3 tubular 112 to 228 ft. deep; no purification.

Pump driven by gasoline engines, 2 13-hp.; pumping direct & to standpipe.

Pipe, 7.2 mi. 4 to 10-in.; hyd. 25; valves, 84; meters, 513; av. daily cons. 61,000 gal.; serv. con. 538; ord. pres. 50 lb.

WESTWOOD, 1,870.

Supplied by Hackensack Water Co. See New Milford.

WILDWOOD, 898.

WILDWOOD WATERWORKS CO. (Controlled by American Pipe & Construction Co., 112 N. Broad St., Philadelphia, Pa. For officers, see Clayton.)
Supt., Clarence Miller.....Wildwood

Wells, 10 tubular 120 to 700 ft. deep & 19 surface, 50 ft. deep; no purification.

Boilers, 2 50-hp.; engines, 30-hp. Buckeye, 2 60-hp. ea. Otto, one 4-hp. F. M., 2 15-hp. ea. Otto, one 12-hp. Otto, one 4-hp. Otto, one 1.5-hp. Otto; pumping direct & to standpipe, 3-700,000 gal. steel & iron.

Pipe, 41 mi. 4 to 16-in.; hyd. 213; valves, 598; meters, 2626; av. daily cons. 505,000 gal.; serv. con. 2407; ord. pres. 40 to 50 lb.

WOODBINE, 2,399.

WOODBINE LAND & IMPROVEMENT CO.
Pres., E. S. Benjamin,
80 Maiden Lane, New York, N. Y.
Gen. Mgr., H. L. Sabsonich,
New York, N. Y.
Supt. & Pur. Agt., W. E. Bertrand,
Woodbine.
Cons. Engr., H. F. Sanville,
1326 Chestnut St., Philadelphia, Pa.

Wells, 4 tubular 8-in. 160 ft. deep; settling basin, 100,000 gal.

Boilers, 4 hor. return tubular 150-hp. ea. 100 lb. 3 Ames & one Keeler; hand stoking; pumps, 2-300,000 gal. vert. s. d. act. Davidson, 2 hor. duplex Deane; air compressor, Sweigard; steam engines, 100-hp. Harrisburg, 150-hp. Ironton & 225-hp. Ames; elec. motors, 2 110 v. d. c. Diehl; pumping to elev. tanks 2-65,000 gal.

Pipe, 5 mi. 3 to 6-in. c. i. & wood; hyd. 48, hose con. 2 & 2½-in. R. D. W.; valves, 40 r. & l. h. opening Pratt & Cady; meters, 10 Hersey & Pittsburgh; av. daily cons. 135,000 gal.; serv. con. 300; ord. pres. 30 to 35 lb., fire pres. same.

Rates; meter, 20c. 1000 gal.

WOODBRIDGE TOWNSHIP, 8,498.

MIDDLESEX WATER CO. Office, Elizabeth. For officers, see South Plainfield.

Lake & wells; 10 mi. from center business section; impounding reservoir, 180,000 gal.; mechanical filters, 12; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 3 tubular 375-hp. Tippitt & Wood; hand stoking; pumps, 2-9,000,000 gal. Worth., 1-250,000 gal. F. M.; oil engine, 40-hp. F. M.; pumping to standpipe, steel.

Pipe, 50 mi. 4 to 30-in.; hyd. 97, hose con. 2½-in. R. D. W. & Darling; meters, 700 various; serv. con. 700; ord. pres. 70 lb., fire pres. same.

Rates; meter, 25c. 100 cu. ft.

WOODBURY, 4,642.

MUNICIPAL.
Chmn. Comrs., Edward Martin, Woodbury
Supt., John Ford..... "
Cons. Engr., W. H. Boardman,
426 Walnut St., Philadelphia, Pa.

Wells, 10 artesian 8-in. 275 to 300 ft. deep; 5 mi. from center business section.

Reservoirs, 2-60,000 gal., no purification.

Boilers, 2 60-hp. ea. 80 lb. D. & W. 1892; pumps, 1-240,000 gal. hor. comp. R. D. W. 1892, 1-200,000 gal. Worth. 1892; pumping to reservoir, 30,000 gal.

Pipe, 14 mi. c. i.; hyd. 145, hose con. 2½-in. R. D. W.; valves, 96 r. h. opening R. D. W.; av. daily cons. 600,000 gal.; serv. con. 1400; ord. pres. 35 to 80 lb., fire pres. same.

WOODLYNNE, 500.

Supplied by Merchantville Water Co. See Merchantville.

WOODRIDGE, 1,043.

Supplied by Hackensack Water Co. See New Milford.

WOODSTOWN, 1,613.

MUNICIPAL.
Mayor, E. S. Fogg.....Woodstown
Supt., F. P. Vanlier..... "

Wells, 8 tubular 6 & 8-in. 150 to 350 ft. deep; reservoir, 70,000 gal.

Boilers, 2 return tubular 75-hp. ea. Coatesville 1892 & 1907; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Deane 1907, 1-20,000 gal. hor. duplex Deane 1892; air compressor, 500 cu. ft. 1915; pumping to standpipe (1892) 100,000 gal.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 60, hose con. 2½-in.; valves, 40 l. h. opening Kennedy; meters, 20 Buffalo; av. daily cons. 100,000 gal.; serv. con. 250; ord. pres. 45 lb., fire pres. 125 lb.

Rates; flat, $4 year including bath and closet.

NEW MEXICO

ALAMOGORDO, 1,948.
ALAMOGORDO WATER WORKS CO.
Pres., I. H. Kempner.....Galveston, Tex.
V. Pres., W. R. Edison.....Alamogordo
Sec. & Treas., J. Seinsheimer... "
Supt. & Pur. Agt., Guy I. Watt. "

Impounding reservoirs on Alamo Creek, 2-1,250,000 gal.; 14 mi. from center business section; sediment removed by sand boxes along pipe line.

Gravity distribution from reservoirs, above; pipe, 35 mi. 4 to 14-in. c. & w. i., hose con. 4-in. Ludlow; valves, 40 r. & l. h. opening various; meters, 550; av. daily cons. 1,500,000 gal.; serv. con. 700; ord. pres. 80 to 120 lb., fire pres. same.

Rates; meter, min. charge, $1.25 mo. 625 cu. ft., 20c. 100 cu. ft. max., 8c. min.

ALBUQUERQUE, 11,020.
ALBUQUERQUE WATER SUPPLY CO.
Supt., A. B. McMillen.....Albuquerque

CARLSBAD, 1,736.
PUBLIC UTILITIES CO.
Pres., A. J. Muzzy.....Bristol, Conn.
V. Pres., F. F. Doepp.....Carlsbad
Sec. & Treas., W. H. Merchant.... "
Mgr. & Supt., R. M. Fessenden.... "
Asst. Mgr., Cecil Thompson..... "
Engr. P'g. Sta., L. A. Tomlinson... "

Wells, 2 4 & 8 in. 160 ft. deep; one mi. from center distribution; no purification.

Pumps, 2-288,000 gal. Worth., direct connected and belted to elec. motors, 20 & 30-hp. 110 v. s. ph. 60 cys. Wagner; pumping to standpipe (1907) steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 23, hose con. 2½-in. Clow; valves, 12 r. h. thd. Clow; meters, 275 Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 400; ord. pres. 35 to 40 lb., fire pres. 60 to 80 lb.

Rates; flat, $1.90 mo.; meter, min. charge $2, 30c. 1000 gal. max., 20c. min.

CIMARRON, 791.
CIMARRON WATER CO.
Pres. & Gen. Mgr.,
Geo. H. Webster, Jr.....Cimarron
Secy. & Pur. Agt., F. H. Alpers... "
Treas., C. A. Nyhus.....Raton

Cimarroncito River; 8 mi. from center business section; settling basin, 500,000 gal.

Gravity distribution from reservoir above; elev. tanks, concrete; pipe, 15 mi. 6 & 8-in. wood; hyd. 32, hose con. 2½-in. Western; valves, 70 l. h. opening Western; meters, 5 Pittsburgh & Hersey; av. daily cons. 150,000 gal.; serv. con. 150; ord. pres. 90 to 110 lb., fire pres. same.

Rates; flat, $4.50 quarter, bath $1.50, closet $1.50; meter, min. charge $1.50 mo. 3000 gal., 50c. 1000 gal. max., 7c. min.

CLAYTON, 970.
MUNICIPAL.
Mayor, H. J. Hammond.....Clayton
Clerk, M. R. Jones..... "
Supt., C. H. Calggett.....Clayton

Wells, 3 8-in. 150 to 450 ft. deep; ½ mi. from center distribution; settling basins, 50,000 gal.

Pump driven by gasoline engines, 2 90-hp. ea. De La Vergne; elec. motors, 2300 v. 3 ph. 60 cys. Ft. Wayne; pumping to standpipe (1911) 75,000 gal.

Hyd. 15, hose con. 2½-in. Iowa; valves, r. h. thd.; meters, 100 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 700; ord. pres. 35 to 40 lb., fire pres. 40 to 70 lb.

Rates; flat, $2.20; meters, min. charge $2 4000 gal., 35c. 1000 gal. max.

CLOVIS, 3,255.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Supt. & Engr. P'g. Sta.,
Geo. W. Chalfand.....Clovis

Boiler, 300-hp. C. & H.; steam engines, 300-hp. Ide.

DEMING, 1,864.
DEMING REAL ESTATE & IMPROVEMENT CO.
Supt., C. J. Langhrem.....Deming

EAST LAS VEGAS, 3,755.
THE AQUA PURA COMPANY OF LAS VEGAS. Office, 701 Douglas Ave.
Gen. Mgr., S. Powers.....East Las Vegas

Gallinas River; 7 mi. from center business section; impounding reservoir, 60,000,000 gal.; gravity distribution from reservoir 8,000,000 gal.

Pipe, 23 mi. 2 to 16-in. c. i.; hyd. 65, hose con. 2½-in. Holly; meters, 100 Neptune; av. daily cons. 1,000,000 gal.; serv. con. 1600; ord. pres. 60 to 100 lb., fire pres. same.

Rates; meter, min. charge $12 year 3333 gal., 30c. 1000 gal. max., 10c. min.

LAS CRUCES, 3, 836.
MUNICIPAL.
Supt., E. I. Anderson.....Las Cruces
Engr. P'g. Sta., J. B. Lucero..... " "

Wells, 2 10-in. 130 ft. deep; no purification.

Pumps, 2-216,000 gal. centrifugal Luitweiler belted to gasoline engines, 2-25-hp. F. M.; pumping to elev. tanks, 85,000 gal. steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 52, hose con. 2-in. Iowa; valves, 20 r. h. thd. Iowa; meters, 75 Neptune & Thompson; av. daily cons. 150,000 gal.; serv. con. 300; ord. pres. 40 to 50 lb., fire pres. same.

Rates; flat, $1.50 mo.; meters, min. charge $1.50 3000 gal., 25c. 1000 gal.

LAS VEGAS, 3,179.
THE AGUA PURA COMPANY of Las Vegas.
Pres., John T. Malone.....Louisville, Ky.
V. Pres., Henry Almstedt... " "
Sec., Chas. Rogers.....Las Vegas
Treas. & Supt., S. Powers..... " "

Gallinas River, 7 mi. from center distribution; impounding reservoir, 60,000,000 gal.; no purification.

Gravity distribution from reservoir, 8,000,000 gal.

Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. Holly; valves, 110 r. & l. h. thd.; meters, 80 Neptune; av. daily cons. 1,000,000 gal.; serv. con. 1600; ord. pres. 50 to 100 lb., fire pres. same.

Rates; meter, 30c. 1000 gal. max., 10c. min.

RATON, 4,539.

MUNICIPAL.

Mayor, J. J. Shuler.....Raton
Comr., Henry Jones..... "
Comr., Henry Bohon..... "
Sec., Floyd Honer..... "
Cons. Eng., Hiram Phillips..St. Louis, Mo.
City Engr., George R. Fryman.....Raton

Impounding reservoir, 4,000,000 gal.; settling basin, 1,500,000 gal.; coagulating basin 1,500,000 gal.; mechanical filters, 1,500,000 gal. Pittsburgh; chemicals, sulphate of alumina and soda ash; gravity distribution from reservoir, 650,000 gal.

Pipe, 19.5 mi. 6 to 12-in. c. i.; hyd. 52 Iowa; meters, 200 Hersey; serv. con. 1100; ord. pres. 85 to 130 lb., fire pres. same.

Rates; meter, min. charge $1 mo. 3000 gal.

ROSWELL, 6,172.

MUNICIPAL.

Mayor, J. Smith Lee.....Roswell
City Mgr., Wm. Atkinson..... "
Chmn. Comrs., J. Q. Cummins..... "
Comr., Harry Jaffa..... "
Comr., Dr. Montgomery..... "
Cons. Engr.,
Burns & McDonald..Kansas City, Kans.
Supt., J. D. Hudgins.....Roswell

Artesian wells, 3 8-in 320 ft. deep; near center distribution; no purification.

Boilers, 2 return tubular 100-hp. Gem; hand stoking; pumps, 2-4,000,000 gal. Prescott; pumping direct.

Pipe, 28 mi. 4 to 30-in. c. i.; hyd. 132, hose con. 2½-in. Pratt & Cady; valves, 138 r. h. thd. Western; meters, 1200 Neptune & Pittsburgh; av. daily cons. 850,000 gal.; serv. con. 1200; ord. pres. 60 lb., fire pres. 100 lb.

Rates; all meter, min. charge $1 mo. 3000 gal., 15c. 1000 gal. max., 7c. min.

SANTA FE, 5,072.

SANTA FE WATER & LIGHT CO.

Pres. & Treas., C. F. Street.....Santa Fe
Gen. Mgr., Edgar L. Street..... " "
Mgr., Frank Owen..... " "
Supt., A. J. Griffin..... " "

Santa Fe River; 3 mi. from center distribution; impounding reservoir, 450,000,000 gal.; no purification.

Gravity distribution from reservoir, 7,500,000 gal.; av. daily cons. 450,000 gal.; serv. con. 686; ord. pres. 83 lb., fire pres. 110 lb.

SPRINGER, 550.

THE SPRINGER WATER & ELECTRIC LIGHT CO.

Pres., Geo. W. Wardes.....Springer
Sec. & Treas. Mrs. F. W. Salozor... "
Gen. Mgr. & Pur. Agt.,
F. A. Trijillo..... "

Cimarron River and Springer Lake; 5 mi. from center business section; no purification.

Pump, 1-70,000 gal. hor. d. act. Myers 1912 driven by oil engine, 12-hp. Hawkins 1912; gravity distribution from reservoir, 102,000 gal.

TUCUMCARI, 2,526.

MUNICIPAL.

Mayor, W. B. Rector.....Tucumcari
City Clerk, S. C. Campbell..... "
Supt., D. C. Fox..... "

Wells, 3 8-in. 350 ft. deep; ¾ mi. from center distribution; no purification.

Boilers, 80-hp.; pumping equipment being changed from steam to electric; pumping to elev. tank (1910) 100,000 gal. steel.

Pipe, 12 mi. 4 to 12-in. wood; hyd. 49, hose con. 2½-in.; meters, 310 Pittsburgh, Neptune, Nat'l, & Hersey; av. daily cons. 90,000 gal.; serv. con. 542; ord. pres. 45 lb., fire pres. 45 to 90 lb.

Rates; flat, $1.25 mo.; meters, 35c. 1000 gal.

NEW YORK

ADDISON, 2,004.

ADDISON WATERWORKS.

Pres., C. W. Knight.....Addison
Treas., J. M. Brainerd..... "
Sec. & Des. Engr., C. C. Hopkins... "
Supt., E. D. Crane..... "

Spring & wells, 5 tubular 2-in. 220 ft. deep; one mi. from center distribution; no purification.

Pumps driven by gasoline engine, 3-hp. Fay & Bowen; pumping to reservoir, 1,250,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. Ludlow; valves, 35 r. h. thd. Ludlow; meters, 300 Buffalo; av. daily cons. 50,000 gal.; serv. con. 300; ord. pres. 85 lb., fire pres. same.

AKRON, 1,767.

MUNICIPAL.

Pres. Comr., E. E. Shields.....Akron
Comr., B. Skellen..... "
" M. Moyer..... "
Supt. & Engr. P'g. Sta., H. C. Lewis "

Wells, 7 tubular 2 to 4-in.; ½ mi. from center business section; reservoir, 50,000 gal.; no purification.

Boilers, 2 hor. 50-hp. ea. 90 lb. C. & T. 1897; hand stoking; pumps, 1-750,000 gal. hor. comp. d. act. Snow 1896, 1-750,000 gal. vert. triplex Deming 1896; steam engine, 50-hp. hor. Nye 1896; pumping to reservoir, 40,000 gal. & standpipe (1896) 100,000 gal.

Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 55, hose con. 2½-in. Eddy; valves, 85 r. h. opening; meters, 15 Hersey, Pittsburgh & Neptune; av. daily cons. 200,000 gal. 75%; serv. con. 440; ord. pres. 100 lb., fire pres. 120 lb.

Rates: flat, $6.00 year, bath $3.50; meter, 8c. 1000 gal.

ALBANY, 100,253.

MUNICIPAL.

Comr., Wallace Greenalch.....Albany
Supt., James N. Kilbourn..... "
Deputy Supt., James W. Collins.... "
Filtration Foreman, W. S. Shields... "
Assessor, Henry Besch..... "
Cashier, C. E. Stevenson..... "
Engr. P'g. Sta., Joseph Ryan..... "
Chemist, Geo. E. Willcomb..... "

Hudson River & Rensselaer Lake; 2 to 6 mi. from center distribution; impounding reservoirs including Renssalaer Lake, 3-177,800,000 gal.; settling basins, 14,600,000 gal.; slow sand filters, 8-28,000,000 gal. 0.7 acre ea.; mech. filters, 16-30,000,000 gal. 810 sq. ft. ea.; chemical, hypochlorite of lime & sulphate of alumina.

Boilers, 7 water-tube 300-hp. 155 lb. Sterling; hand stoking; pumps, 3-5,000,000 gal. tri. exp. Allis, 2-12,000,000 gal. vert. tri. exp. Holly, 2-14,000,000 gal. hor. comp. Lawrence d. con. to steam engine, Watertown, 1-16,000,000 gal. hor. comp. R. D. W. d. con. to steam engine, Sheperd, 2-30,000,000 gal. comp. R. D. W. d. con. to steam engine, Sheperd, 2-15,000,000 gal. hor. comp. R. D. W. d. con. to steam engine, Sheperd; pumping direct & to reservoir, 3-61,400,000 gal.

Pipe, 151.26 mi. 3 to 48-in. c. i. & steel; hyd. 1185, hose con. 2½ & 4-in. Eddy & Smith; valves, 1450 r. h. opening Smith; meters, 5756 various; av. daily cons, 22,486,000 gal.; serv. con. 18,428; ord. pres. 13 to 92 lb., fire pres. same.

Rates: flat, based on width & height of building; meter, 6c. 100 cu. ft.

ALEXANDRIA BAY, 1,899.

MUNICIPAL.

Pres. Comrs.,
Clarence Thompson.....Alexandria Bay
Comr., Alfred Lee..... " "
" Chas. Benson..... " "
Sec., A. R. De Young..... " "
Supt. & Ch. Engr. P'g. Sta.,
Clarence Willix..... " "

St. Lawrence River; ¼ mi. from center distribution.

Pumps, 2-1,225,000 gal. Rumsey d. con. to gasoline engine, 2 80-hp. Pohl; pumping to standpipe (1904) 188,000 gal. iron.

Pipe, 3 mi. 4 to 10-in. c. i.; hyd. 52, hose con. 2½-in.; valves, 35 r. h. thd. Ludlow; meters, 235 Pittsburgh, National & Neptune; av. daily cons. 150; serv. con. 450; ord. pres. 53 lb., fire pres. 95 lb.

Rates: flat, $5 year, bath $2, closet $2; meter, 40c. 1000 gal. max., 38c. min.

ALTAMONT, 8,674.

TUPPER LAKE WATER CO.

Pres., W. G. Barbour.....Altamont
Sec., Warren Barbour..... "
Treas. & Supt., D. C. Randall.... "
Cons. Engr., A. W. Cuddeback,
158 Ellison St., Paterson, N. J.

Spring & brooks; 5 mi. from center distribution; no purification.

Pump, 1-864,000 gal. Rumsey driven by gasoline engine, 35-hp. Advance; pumping to standpipe (1908) steel.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. Ludlow; valves, 52 l. h. opening Ludlow; meters, 36 Neptune; av. daily cons. 300,000 gal.; serv. con. 300; ord. pres. 50 to 70 lb., fire pres. same.

Rates: flat, $10 year, bath $2, closet $2; meter, min. charge $2.25 6000 cu. ft., $1.50 2nd 6000 cu. ft., 75c. 1000 cu. ft.

AMENIA, 967.

AMENIA WATER CO.

Pres. J. R. Thompson, Jr.....Amenia
V. Pres. D. P. Barry..... "
Sec. Treas., Gen. Mgr. & Pur. Agt.,
J. R. Thompson..... "

Springs & wells, 2 artesian 6-in. 48 ft. deep; near center business section; reservoir, 600,000 gal.; no purification.

Pumps, 2-432,000 gal. triplex driven by

gas engines, 9 & 15-hp. F. M.; pumping to reservoir 2-1,000,000 gal. & standpipe (1891) 100,000 gal.

Hyd. 12, hose con. 2½-in. Kennedy; meters, none; serv. con. 104; ord. pres. 70 lb., fire pres. same.

Rates: flat, $10.00 year, bath $4.00, closet $4.00.

AMITYVILLE, 2,517.

AMITYVILLE WATERWORKS CO.

Pres., S. P. Hildreth.....Amityville
V. Pres., F. B. Powell..... "
Sec. & Treas., N. V. W. Colyn... "
Supt., E. W. Davis..... "
Engr. P'g. Sta., Percy Ward..... "

Wells, 4 tubular 6 & 8-in. 55 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, 2-1,152,000 gal. Deane driven by gasoline engine, 40-hp. National & elec. motors, 20 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1893) iron.

Pipe, 11.3 mi. 4 to 12-in. c. i.; hyd. 92, hose con. 2½-in. Eddy; valves, 85 r. h. opening Eddy; meters, none; av. daily cons. 163,000 gal.; serv. con. 450; ord. pres. 44 to 56 lb., fire pres. 50 to 75 lb.

AMSTERDAM, 31,267.

MUNICIPAL.

Supt. & Des. Engr.,
John D. Wright.....Amsterdam
Prin. Asst. Engr., Ed. Carroll... "
Executive Clerk, A. Marx..... "

Hanns Creek; 22 mi. from center distribution; no purification.

Gravity distribution form reservoir, 2-104,000,000 gal.

Pipe, 49 mi. 4 to 30-in. c. i.; hyd. 561, hose con. 2½-in. Ludlow, Chapman, Smith & Norwood; valves, 734 Ludlow; meters, 329 Union, Thomson, & Neptune; av. daily cons. 8,500,000 gal.; serv. con. 4,500; ord. pres. 35 to 75 lb., fire pres. 55 to 90 lb.

ANDES, 414.

ANDES WATER CO.

Pres., E. M. Nonton.....Andes
V. Pres., Le Roy Miller..... "
Sec., Treas. & Supt.,
David Ballantine..... "

Springs; ½ mi. from center distribution; no purification.

Gravity distribution from reservoir, 50 x 50 x 8 ft.; hyd. 26, hose con. 2½-in.; valves, r. h. thd.; serv. con. 100.

ANGOLA, 898.

MUNICIPAL.

Pres. & Trustees, C. F. Johnt.....Angola
Sec., J. H. Schlender..... "
Supt. & Engr. P'g. Sta., T. R. Shuptz "

Lake Erie; 3 mi. from center business section; reservoir, 130,000 gal.; slow sand filters, 236,000 gal. 32 x 60 x 14 ft.

Pumps, 2-432,000 gal. vert. centrifugal Rumsey 1911 d. con. to gas engine, 2 30-hp. ea. Olin 1911; pumping to standpipe (1911) 236,000 gal. iron, H. A. Hoffman.

Pipe, 6 mi. 4 to 10-in. c. i.; hyd. 50 hose con. 2½-in. Eddy; valves, 40 l. h. opening Eddy; meters, 335 Hersey & Pittsburgh; av. daily cons. 236,000 gal.; serv. con. 335; ord. pres. 60 lb., fire pres. 100 lb.

Rates: meter, min. charge $6.00 year 20,000 gal.

ANTWERP, 974.

MUNICIPAL.

Pres. Comr., G. W. Hall.....Antwerp
Comr., C. O. Alton..... "
" D. H. Rogers..... "
Sec., A. J. Smith..... "
Supt. & Engr. P'g. Sta.,
C. F. Burtiss..... "

Indian River; near center business section.

Pumps, 1-360,000 gal. hor. Worth. 1896 belted to wtr. turbines, 125-hp. Morgan Smith, 1-288,000 gal. hor. centrifugal Rumsey 1914 geared to elec. motor, 25-hp. 220 v. 2 ph. 60 cys. G. E. 1914; elec. energy from F. X. Baumert & Co.; pumping to standpipe (1896) 200,000 gal.

Pipe, 3 mi. 4 & 8-in. c. i.; hyd. 50, hose con. 2½-in. Crane; valves, 39 l. h. opening Kennedy; meters, 160 Neptune & Buffalo; av. daily cons. 200,000 gal. 85%; serv. con. 250; ord. pres. 50 to 60 lb., fire pres. 75 to 130 lb.

Rates: flat, $5.00 year, bath $3.00, closet $3.00; meter, min. charge $3.00 6 mo. 200,000 cu. ft. 35c. 1000 gal. max., 6c. min.

ARCADE, 1,294.

MUNICIPAL.

Pres. & Trustee, Frank Briggs.....Arcade
Trustee, W. M. Penney..... "
" C. H. Reynolds..... "
Supt., A. H. Holmes..... "

Springs; 4.5 mi. from center business section; no purification; gravity distribution from reservoir, 2.

Pipe, 16 mi. 4 to 8-in. c. i.; hyd. 30, hose con. 2½-in. Rensselaer; valves, 30 r. h. opening Kennedy; meters, 3 Buffalo; serv. con. 1000; fire pres. 85 lb.

Rates: flat, $6.00 6-mo. bath $3.00, closet $3.00

ATTICA, 1,869.

ATTICA WATER, GAS & ELECTRIC CO.

Pres., Thos. A. Sullivan.....Buffalo
Sec. & Treas., Edward M. Mills.... "
Gen. Mgr. & Pur. Agt., R. W. Harris..Attica
Supt., Oscar Arnold..... "

Springs & impounding reservoir, 14,000,000 gal.; 7 mi. from center business section; mechanical filters, 400,000 gal. N. Y. C. Jewell, gravity distribution from reservoir.

Pipe, 12 mi. 4 to 10-in. c. i.; hyd. 40; hose con. 2½-in. Eddy; valves, 40 r. & l. h. opening Eddy; av. daily cons. 200,000 gal.; serv. con. 465; ord. pres. 30 to 80 lb., fire pre pres. 50 to 85 lb.

Rates: flat, $5.00 year, bath $3.00, closet $3.00.

AUBURN, 34,668.

MUNICIPAL.

Pres. Comrs., F. A. Benson.....Auburn
Comr., W. J. Henry..... "
" Dr. M. P. Conway..... "
Supt. & Des. Engr.,
J. Walter Ackerman..... "

Owasco Lake; chemical, liquid chlorine.

Boilers, 3 return tubular 125-hp. ea. Erie, 2 return tubular 100-hp. ea. Ames; hand stoking; pumps, 2-7,500,000 gal. ea. Holly, 1-10,000,000 gal. R. D. W., 1-10,000,000 gal. Snow; pumping direct.

Pipe, 69.86 mi. 4 to 30-in. c. i. & steel; hyd. 669, hose con. 2½-in. Ludlow & R. D. W.; valves, 669 r. h. thd. Ludlow; meters, 750 various; av. daily cons. 6,542,000 gal.; serv. con. 8309; ord. pres. 25 to 110 lb., fire pres. 65 to 150 lb.

AURORA, 493.

WELLS COLLEGE.

Pres., R. D. MacMillan.....Aurora
Engr. P'g. Sta., A. L. Fritts..... "

Boilers, 4 tubular 100-hp. ea. Erie; hand stoking; pumps, 1-144,000 gal. Deane; pumping to reservoir, 40,000 gal.

Hyd. one, hose con. 2½-in.; av. daily cons. 40,000 gal.

AVON, 2,053.

MUNICIPAL.

Comr., Lewis Tripp.....Avon
" J. D. Anderson..... "
" M. E. Ross..... "
Supt., W. H. Clark..... "

Conesus Lake; 8 mi. from center distribution; gravity distribution from impounding reservoir, 600,000 gal.

Pipe, 25 mi. 4 to 12-in. c. i. & wood; hyd. 47, hose con. 2½-in. Michigan, Rensselaer & Darling; valves, 40 l. h. thd. Rensselaer; meters, 500 Hersey & National; av. daily cons. 400,000 gal.; serv. con. 500; ord. pres. 35 to 110 lb., fire pres. same.

Rates: all meter, $2.25 1000 cu. ft. max., 30c. min.

BALDWINSVILLE, 3,099.

MUNICIPAL.

Pres. Comr., F. M. Dunham..Baldwinsville
Comr., J. McCarthy..... "
" John Garrett..... "
Sec., M. Johnson..... "
Supt. & Pur. Agt., Ezra Cole. "

Well, 15 ft. in diam. 19 ft. deep; ½ mi. from center business section; reservoir, 117,000 gal.; no purification.

Boilers, 2 hor. 80 hp. ea. 80 lb. Phenix 1889; hand stoking; pumps, 2-864,000 gal. hor. simple d. act. Gordon 1889, 2-700,000 gal. hor. centrifugal Morris 1913 d. con. to elec. motors, 2 40-hp. ea. 220 v. 3 ph. 25 cys. Westg. 1913; steam engines, 2 60-hp. ea. Gordon 1889; pumping to standpipe (1889) 117,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 76, hose con. 2½-in. Roe-Stephens; valves, 20 l. h. opening Kennedy; meters, 80 Pittsburgh; av. daily cons. 342,000 gal.; serv. con. 940; ord. pres. 80 to 87 lb., fire pres. same.

Rates: flat, $5 year, bath $3, closet $3.

BEACON, 10,629.

MUNICIPAL.

Comr., J. B. Sherman.....Beacon
Supt., D. J. McGinns..... "

Impounding reservoirs, 2-183,500,000 gal.; 1½ mi. from center distribution; gravity distribution.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 225, hose con. 2½-in. Ludlow & R. D. W.; valves, 100 l. h. thd. Ludlow; meters, 1400 Neptune; av. daily cons. 250,000 gal.; serv. con. 1500; ord. pres. 85 to 168 lb., fire pres. same.

BELLMORE, 500.

BELLMORE CITIZENS WATER CO., INC.

Pres., Peter Johnson.....Bellmore
V. Pres., W. E. Bourne..... "
Sec., J. A. Stiles..... "
Treas., J. J. Bedell..... "
Cons. Engr., T. G. Smith..... "

Wells, 2 tubular 18-in. 45 ft. deep; ¼ mi. from center business section; no purification.

Pumps, 2-360,000 gal. vert. triplex d. con. to gasoline engine, 2 20-hp. ea.; pumping to elev. tank, 100,000 gal. steel.

Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 61, hose con. 2½-in.; valves, 36 l. h. opening.

Rates: flat, $15 year including bath & closet.

BELMONT, 1,054.

MUNICIPAL.

Pres. Comrs., Wm. K. Paul.....Belmont
Comr., J. S. Reid..... "
" W. F. Moulton..... "
Supt., R. A. Whitcomb..... "
Clerk, Leon A. Ackerman..... "
Treas., M. W. Sortore..... "

Springs & North Branch Creek; 4 mi. from center distribution; slow sand filter natural creek bed; settling basin, 20 x 20 ft.; chemical, none.

Gravity distribution from reservoir, 75,000 gal.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in.; meters, 100 various; av. daily cons. 19,000 gal.; serv. con. 250; ord. pres. 75 to 80 lb., fire pres. same.

Rates: flat, $6 year, bath $2.50, closet $3; meter, min. charge $6 year 18,000 gal., 30c. 1000 gal. max., 20c. min.

BERGEN, 657.

MUNICIPAL.

Pres. Comr., R. M. Andrews.....Bergen
Comr., C. N. Carpenter..... "
" G. H. Morden..... "
Sec., H. L. Carpenter..... "

Wells, tubular ½ mi. from center distribution.

Boilers, 2 hor. tubular 70-hp. ea. 100 lb.

Keeler 1909; hand stoking; pumps, 1-126,-000 hor. comp. d. act. Snow 1913, 1-504,000 vert. triplex Rumsey 1906 geared to elec. motor; elec. energy from Bergen Light Plant; pumping to standpipe, 63,500 gal.

Pipe, 3.5 mi. 4 to 8-in.; hyd. 29, hose con. 2½-in. Eureka; valves, 13; meter, one Buffalo; av. daily cons. 42,000 gal.; serv. con. 120; ord. pres. 50 lb., fire pres. 80 lb.

BINGHAMTON, 48,443.

MUNICIPAL.

Supt., M. Stoppard.....Binghamton
Engr. P'g. Sta., E. E. Miller... "
Chemist, B. E. Nelson..... "

Susquehanna River & wells, 10 artesian 6-in. 40 ft. deep; mechanical filters, 2-18,-500,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & lime.

Boilers, 4 wtr. tube 200-hp. ea. B. & W.; hand stoking; pumps, 3-12,000,000 gal. ea. 2 Holly & one Snow; pumping direct & to reservoir, 5,000,000 gal.

Pipe, 97 mi. 4 to 30-in.; hyd. 904, mostly R. D. W.; valves, 1508 r. h. opening; meters, 6000 mostly Pittsburg & Neptune; av. daily cons. 6,724,500 gal.; serv. con. 11,182; ord. pres. 70 to 72 lb., fire pres. 80 lb.

Rates: flat, $3 year, bath $3, closet $3; meter, min. charge $4 40,000 gal. 10c. 1000 gal.

BLOOMVILLE, 305.

BLOOMVILLE WATER CO.

Pres., Chas. L. Andrews.....Stamford
Gen. Mgr., E. W. Simmons.....Bloomville

Springs & impounding reservoirs, 2-500,-000 gal.; ¾ mi from center business section, gravity distribution.

Pipe, 2 mi. 4-in. c. i.; hyd. 12, hose con. 3-in.; valves, 5 r. h. opening; meters, 50 Neptune; av. daily cons. 6,000 gal. 90%; serv. con. 52; ord. pres. 125 lb., fire pres. same.

Rates: flat, $15 year including bath & closet; meter, min. charge $9 year 36,500 gal., 50c. 1000 gal.

BOONVILLE, 1,794.

MUNICIPAL.

Chmn. Comrs., J. H. Barber.....Boonville
Comr., E. H. Congdon..... "
" Philip Joynt..... "
Clerk, J. A. Bateman..... "
Supt., G. E. Bripman..... "

Springs & brooks; 2½ mi. from center distribution; no purification.

Gravity distribution from reservoirs, 2-7,500,000 gal.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 2½-in. Ludlow; valves, r. h. thd. Ludlow; meters, 100 various; av. daily cons. 200,000 gal.; serv. con. 650; ord. pres. 65 to 75 lb., fire pres. same.

Rates: meter, 25c. 1000 gal. max., 15c. min.

BREWSTER, 1,296.

MUNICIPAL.

Village Pres., Andrew Terris.....Brewster
Supt., J. H. Truvan.....Brewster

Spring & artesian wells, 3; ¼ mi. from center business section; pumps, 3 Deane & Goulds belted to elec. motors, 5, 10 & 25-hp.; hyd. 54, hose con. 2½-in. Ludlow; valves, 26 Ludlow; meters, 12 Pittsburgh; serv. con. 150; ord. pres. 50 to 90 lb., fire pres. same.

Rates: flat, $12.00 year.

BRIARCLIFF MANOR, 950.

MUNICIPAL.

Pres., Comrs., P. N. Hayes, Briarcliff Manor
Comr., Henry H. Law..... "
" Harold A. Caparn.. "
Sec., Wm. H. Coleman.... "
Supt. & Des. Engr.,
Patrick Manahan..... "
Engr. P'g. Sta.,
Peter F. Reilly..... "
Chemist, State Board of Health
New York

Wells, 7 open 15 ft. in diam. 30 ft. deep; one mi. from center distribution; no purification.

Pumps, 5-1,425,000 gal. Goulds belted to elec. motors, 5-157 kw. 2 ph. 60 cys. G. E.; elec. energy from Northern Winchester Lighting Co.; pumping direct & to elev. tank. 100,000 gal. steel.

Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in. Ludlow; valves, 185 l. h. thd. Drummond; meters, 215 Neptune; av. daily cons. 250,000 gal.; serv. con. 210; ord. pres. 56 to 250 lb., fire pres. same.

Rates: all meter, min. charge 75c. mo., 20c. 100 cu. ft.

BROCKPORT, 3,579.

MUNICIPAL. SUPPLY CLARKSON & HAMLIN.

Chmn. Comrs., A. M. White....Brockport
Comr., J. L. Hazen..... "
" Frank Hebbard..... "
Village Clerk, F. E. Reynolds.... "
Supt., Geo. P. Front..... "

Lake Ontario; 10 mi. from center business section; reservoir, 1,500,000 gal.; settling basins, 20,000 gal.; mechanical filters, 400,000 gal. N. Y. C. Jewell; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, 2-750,000 gal. tri. exp. McGowan 1913, 1-300,000 gal. hor. duplex Gardner 1914; pumping to reservoir, above & standpipe (1891) 280,000 gal.

Pipe, 25 mi. 4 to 14-in. c. i.; hyd. 86, hose con. 2½-in. Ludlow; valves, l. h. opening Ludlow; meters, 779; av. daily cons. 400,-000 gal.; serv. con. 1137; ord. pres. 70 to 80 lb., fire pres. same.

Rates: flat, $2 quarter; meter, min. charge $2 quarter, 4000 gal., 50c. 1000 max., 10c. min.

BROCTON, 1,181.

MUNICIPAL.

Supt., Geo. Ferguson.....Brocton

BROOKLYN, 1,634,351.

MUNICIPAL. A PART OF THE DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY OF THE CITY OF NEW YORK. For commission officials see under New York.
Borough Engr.,

Carlos Lobo, 50 Court St.....Brooklyn
Ass't. Engr., Wm. S. Laase..... "

Driven wells, infiltration galleries & small streams along the south shore of Long Island; impounding reservoir, 50,000,000 gal.; mechanical filters at Jamaica, Springfield & Hempstead.

Ridgewood Northside Station: boilers, 10 tubular 200-hp. ea. 137 lb. Morris, 8 water-tube 300-hp. ea. 175 lb. Heine; mechanical stokers, Murphy; pumps, 1-15,000,000 vert. Deane, Hubbard & Whittaker 1869, 4-15,000,000 gal. ea. hor. comp. d. act. Davidson 1884, 3-20,000,000 gal. ea. vert. tri. exp. Worth. 1898, 2-23,000,000 gal. ea. vert. tri. exp. Corliss-Davis & Farnum 1911, 2-15,000,000 gal. ea. tri. exp. Corliss-Davis & Farnum 1911. Ridgewood Southside Station: boilers, 8 water-tube & return tubular 200 & 275-hp. 120 lb. B. & W. & Strong; pumps, 5-10,000,000 gal. ea. vert. comp. d. act. Worth. 1892. Woodhaven Station: boilers, 2 locomotive 100 & 125-hp. 80 & 100 lb. Donegan & Swift; pumps, 2-63,000,000 gal. ea. hor. comp. d. act. Worth. 1907. Aqueduct Station: boilers, 2 locomotive 80-hp. ea. 85 lb. Donegan & Swift; pumps, 1-4,000,000 gal. d. act. Deane 1907, 1-3,000,000 gal. hor. centrifugal Morris 1906. Shatucket Station: boilers, one locomotive 80-hp. 80 lb. Donegan & Swift; pump, 1-3,000,000 gal. hor. comp. d. act. Worth. 1907. Oconee Station: boilers, 2 tubular 60-hp. ea. 80 lb. Davidson; pumps, 1-14,000,000 gal. hor. Davidson 1907, 1-4,000,000 gal. hor. comp. d. act. Davidson 1897. Morris Park Station: boiler, locomotive 100-hp. 80 lb. Erie; pump, 1-3,500,000 gal. hor. comp. d. act. Worth. 1907. Jameco Station: boilers, 2 wtr. tube 225-hp. ea. 120 lb. B. & W.; pumps, 1-5,000,000 gal. hor. comp. d. act. Worth. 1890, 1-5,000,000 gal. hor. comp. d. act. Buffalo 1905, 1-5,000,000 gal. hor. tri. exp. Davidson 1892. St. Alban Station: boiler, locomotive 100-hp. 100 lb. Donegan & Swift; pumps, 1-3,000,000 gal. hor. comp. Davidson 1905. Springfield Station: boilers, 2 Scotch Marine 76-hp. 90 lb. Brooklyn I. W.; pumps, 1-3,000,000 gal. hor. comp. d. act. Worth. 1913, 1-5,000,000 gal. hor. comp. d. act. Davidson 1890, 1-5,000,000 gal. hor. comp. Lawrence 1905. Rosedale Station: boilers, 2 locomotive 100-hp. ea. 95 lb. Erie; pumps, 2-4,000,000 gal. centrifugal Buffalo 1906. Forest Stream Station: boilers, locomotive 95-hp. Erie, hor. return tubular 89-hp. 80 lb. Dover; pumps, 2-5,000,000 gal. hor. comp. Wright & Knowles 1895. Sook Creek Station: boiler, water-tube 100-hp. Heine; pump, 1-4,000,000 gal. hor. tri. exp. d. act. Worth. 1910. Clear Stream Station: boilers, 2 Scotch Marine 100-hp. 80 lb. Davidson-Knowles, one locomotive 70-hp. 80 lb. Davidson-Knowles; pumps, 2-5,000,000 gal. hor. comp. Wright & Knowles 1895. Watts Pond Station: boilers, one locomotive 100-hp. 100 lb. Vogt. one hor. return tubular 80-hp. 70 lb. Erie, pump, 1-5,000,000 gal. hor. comp. d. act. 1885. Lynbrook Station: boiler, one locomotive 100-hp. 90 lb. Erie; pumps, 1-5,000,000 gal. hor. comp. d. act. Worth. 1908. Smith's Pond Station: boilers, 2 hor. tubular 90-hp. ea. 70 lb. Cunningham; pumps, 2-5,000,000 gal. hor. comp. Davidson 1883 & 1890. Rock Center Station: boiler, locomotive 100-hp. 85 lb. Donegan & Swift; pumps, 1-4,000,000 gal. hor. simple Davidson 1908. Baldwins Station: boiler, water-tube 150-hp. 75 lb. Heine; pump, 1-4,000,000 gal. tri. exp. d. act. Worth. 1910. Agawam Station: boilers, 2 locomotive 100-hp. 65 lb. Donegan & Swift; pumps, 2-5,000,000 gal. centrifugal Edwards & Andrews 1895 driven by steam engine. Milburn Station: boilers, 2 Scotch Marine 250-hp. ea. Burnham, 8 Scotch Marine 80-hp. ea. 120 lb. Davidson; pumps, 2-12,500,000 gal. tri. exp. d. act. Worth. 1895, 5-10,000,000 gal. ea. tri. exp. Davidson 1892. Merrick Station: boilers, 3 Scotch Marine 80 & 120-hp. 60 lb. Davidson; pumps, 3-5,000,000 gal. ea. centrifugal & hor. d. act. Edwards & Andrews 1895 & Worth. 1895. Matowa Station: boilers, 2 Scotch Marine 110-hp. 70 lb. Davidson; pumps, 2-5,000,000 gal. ea. centrifugal Edwards & Andrews 1895 steam engine driven. Wantagh Station: boilers, 3 Scotch Marine 100 & 150-hp. 55 lb. B. & W. & Ames; pumps, 3-10,000,000 gal. ea. centrifugal Morris 1908 steam engine driven. Massapequa Station: boilers, 3 Scotch Marine 125 & 150-hp. Ames; pumps, 3-15,000,000 gal. centrifugal Sheperd 1908 steam engine driven. New Lots Station: boilers, 3 fire tube and return tubular 150-hp. ea. 250 lb. Rutzler; pumps, 3-5,000,000 gal. ea. hor. comp. & hor. tri. exp. Marine 1908. Mt. Prospect Station: boilers, 3 Marine and return tubular 150-hp. ea. 145 lb. Delany & Newburg; pumps, 1-10,000,000 gal. vert. centrifugal Wright 1890, 1-7,000,000 gal. hor. tri. exp. Worth. 1910, 1-10,000,000 gal. steam turbine driven Davidson 1894, one hor. tri. exp. d. act. D'Olier 1905. Carnasie Station: boilers, 3 Scotch Marine 150-hp. ea. 150 lb. Erie; pumps, 2-5,000,000 gal. ea. hor. comp. Corliss-Marine 1909. Gravesend Station: boilers, 2 Scotch Marine 150-hp. ea. 130 lb. Penna; pumps, 1-6,500,000 gal. ea. hor. comp. d. act. Snow 1908, 1-2,500,000 gal. hor. comp. Corliss-Deane 1908. Spring Creek Station: boilers, 2 hor. tubular 75-hp. ea. 80 lb.; pumps, 3-1,000,000 gal. & 5,000,000 gal. Knowles 1883 & Davidson 1891. Forest Park Station: boilers, 2 water-tube 225-hp. 150 lb. B. & W.; pumps, 2-500,000 gal. hor. tri. exp. & hor. comp. d. act. Worth. 1909; pumping direct and to reservoirs, 4-323,000,000 gal. & water-tower, 100,000 gal.

Pipe, 1003 mi. 4 to 60-in.; hyd. 17,419; valves, 21,815; av. daily cons. 140,300,000 gal.

For high pressure service see New York.

FLATBUSH WATERWORKS CO. Office, Flatbush Ave. cor. Lenox Road. Supplies 29th ward.

Supt., J. T. Cunningham.....Brooklyn

Distribution from standpipe, 13,100,000 gal.

BLYTHEBOURNE WATERWORKS CO. Supplies small part of 30th ward.

Distribution from elev. tanks, 4-2, 100,000 gal.

GERMAN AMERICAN IMPROVEMENT CO. Supplies small part of 26th ward.

Distribution from standpipe, 800,000 gal.

BUFFALO, 423,715.

MUNICIPAL.

Comr., Francis G. Ward.....Buffalo
Registrar, Richard L. Kirtland..... "
Deputy Comr. & Supt.,
Henry L. Lyon..... "
Ch. Engr. P'g. Sta., J. B. Cloudsley. "
Chemist, H. J. Wagner..... "

Lake Erie; chemical, liquid chlorine.

Boilers, 16 tubular 300-hp. Farrar & Trefts, 4 water-tube 600-hp. Heine; mechanical stoking, McKenzie; pumps, 6-30,000,000 gal. ea. Snow; pumping direct & to reservoir, 1-116,214,000 gal. & Standpipe (1909) steel.

Pipe, 575 mi. 4 to over 30-in. c. i.; hyd. 5500, hose con. 4-in. Howard; valves, 10,400 l. h. thd. Rensselaer; meters, 4000 various; av. daily cons. 143,000 gal.; serv. con. 85,000; ord. pres. 20 to 30 lb., fire pres. obtained by separate pressure system in business district.

Rates: meter, 6c. 1000 gal. max., 2c. min.

WESTERN NEW YORK WATER CO. (BUFFALO DIVISION.) Supplies West Seneca, Cheektowaga, Lancaster, Hamburg, East Hamburg, Amherst, Tonawanda & Alden. Office, 704 Electric Bldg., Buffalo, N. Y.

Pres., F. S. McGraw.....Buffalo
V. Pres., G. Clymer..... "
Treas., D. J. Hibbard..... "
Sec., Walter P. Cooke..... "
Gen. Mgr., H. F. Huy..... "
Chemist, F. J. Longley..... "

Lake Erie; 4 mi. from center distribution; chemical, liquid chlorine.

Boilers, 7 return tubular, 100-hp. ea. Coatesville; hand stoking; pumps, 2-5,000,000 gal. centrifugal, 2-3,000,000 gal. tri. exp., 1-6,000,000 gal. comp. duplex c. & f. wh., 2-2,500,000 gal. tri. exp. Snow, 1-5,000,000 gal. steam turbine driven Worth.; elec. motors, 230 kw. 440 v. 3 ph. 25 cys. Westg.; elec. energy from Niagara, Lockport & Ontario Power Co.; pumping direct & to reservoir, 2-13,000,000 gal.

Pipe, 112.5 mi. 4 to 30-in. c. i.; hyd. 353, hose con. 2½-in. Ludlow; valves, 583 l. h. thd. Ludlow; meters, 3668 mostly National & Neptune; av. daily cons. 6,300,000 gal.; serv. con. 3400; ord. pres. 40 to 125 lb., fire pres. 45 to 125 lb.

Rates: all meter, min. charge $2.25 quarter, 25c. 1000 gal.

CALEDONIA, 1,290.

MUNICIPAL.

Pres. Comrs., A. H. Collins.....Caledonia
Treas., J. D. Donohue..... "
Comr., H. R. McKay..... "
Supt., Allan B. McKay..... "

Well, 12 ft. in diam. 15 ft. deep.

Pumps, 2-432,000 gal. Rumsey d. con. to gas engines, 2 25-hp. ea. Olin; pumping to standpipe (1897).

Pipe, 3.5 mi. 4 to 12-in.; hyd. 47, hose con. 2½-in. Eddy; valves, 33 Eddy; av. daily cons. 111,963 gal.; serv. con. 300; ord. pres. 50 to 65 lb., fire pres. same.

CAMDEN, 2,170.

MUNICIPAL.

Supt., Henry B. Clark.....Camden

CANAJOHARIE, 2,273.

MUNICIPAL. Supplies Palatine Bridge.

Chmn. Comr., F. L. Burton....Canajoharie
Sec., John M. Hatter..... "
Supt., John Riemenschmeide... "
Des. Engr., Chas .Terry.....Albany

Springs; 14 mi. from center business section; reservoir, 150,000 gal.; gravity distribution from reservoirs, 2-2,250,000 gal.

Pipe, 6.5 mi. 4 to 10-in. c. i.; hyd. 66, hose con. 3-in. Ludlow; valves, 46 l. h. opening Ludlow; meters, 5 Hersey; serv. con. 425; ord. pres. 60 to 122 lb., fire pres. same.

Rates: flat, $6 year, bath $3 closet $3; meter, 8c. 1000 gal. max., 3c. min.

CANASERAGA, 754.

MUNICIPAL.

Comr., W. C. Windsor.....Canaseraga
" J. H. Colgrove..... "
" A. Jummer..... "
Supt., F. S. Mehlembacher..... "

Springs, 3.5 mi. from center business section; gravity distribution.

Pipe, 8 mi. 4 & 6-in. c. i.; hyd. 36, hose con. 2-in.; valves, 10 r. h. opening; meters, none; serv. con. 147; ord. pres. 80 to 100 lb., fire pres. same.

Rates: flat, $4 year, bath $3, closet $2.

CANASTOGA, 3,247.

MUNICIPAL.

Supt., Elbert Robinson.....Canastoga

CANISTEO, 2,259.

CANISTEO WATERWORKS CO.

Pres., R. E. Page.....Canisteo
Sec., T. M. Page..... "
Supt., Orton O. Laine..... "

Springs; 2 mi. from center distribution; no purification.

Gravity distribution from reservoir, 2,000,000 gal.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 2½-in. R. D. W.; valves, 34 l. h. opening Eddy; meters, 290 National & Buffalo; serv. con. 562; ord. pres. 70 lb., fire pres. same.

Rates: flat, $5 year, bath $3, closet $4; meter, min. charge, $5 year, 30c. 1000 gal. max., 10c. min.

CANTON, 2,701.

MUNICIPAL.

Comr., J. E. Cheetham.....Canton
" G. W. Dunn..... "
" M. Masewey..... "
Supt., L. R. Smith..... "
Cons. Engrs., Vrooman & Perry, Gloversvill

River; one mi. from center distribution; no purification.

Boilers, 2 tubular 170-hp. Partes & Titusville; hand stoking; pumps, 2-2,000,-000 gal. Deane; pumping direct & to standpipe (1889) steel.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 89, hose con. 2½-in. Ludlow & Eddy; valves, 60 r. h. thd. Ludlow & Eddy; av. daily cons. 350,000 gal.; serv. con. 700; ord. pres. 35 to 90 lb., fire pres. same.

CARTHAGE, 3,653.

MUNICIPAL.

Pres. Comr., E. C. Crook.....Carthage
Comr., S. J. Gifford..... "
" J. G. Jones..... "
Sec., James W. Cinboy..... "
Supt., Fred M. Wing..... "
Cons. Engr., James P. Browness "

Springs: 16 mi. from center business section; reservoir, 3,000 gal.

Pumps, 2-1,500,000 gal. hor. simple d. act. Buffalo 1893; elec. motor 50-hp. G. E. 1913; pumping to standpipe (1893) 275,-000 gal.

Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 33, hose con. 2½-in. Ludlow; valves, 73 l. h. opening Ludlow; meters, 325 various; av. daily cons. 500,000 gal.; serv. con. 725; ord. pres. 65 to 75 lb., fire pres. same.

Rates: flat, $1200 year, bath $4.25, closet $4.25; meter, min. charge $900 year 50 cu. ft. per day, 36c. 100 cu. ft. max., 5c. min.

CASTILE, 1,040.

MUNICIPAL.

Pres. Trustees, A. W. Davis.....Castile
Supt., LeRoy Miller..... "

Springs & wells, 4 open 6 ft. in diam. 11 ft. deep; 2 mi. from center distribution; no purification.

Gravity distribution from reservoir, 1-223,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 41, hose con. 3½-in. Rensselaer; valves, r. h. thd.; serv. con. 250; ord. pres. 50 to 75 lb., fire pres. same.

Rates: flat, $4 year.

CATSKILL, 5,296.

MUNICIPAL.

Supt. Egbert Beardsley.....Catskill

CAZENOVIA, 1,861.

MUNICIPAL.

Pres. Comrs., E. Remington.....Cazenovia
Comr., G. B. Freeborn..... "
" J. A. Loyster..... "
" L. M. Woodworth..... "
" John Jackson..... "
Cons. Engrs., Knight & Son...Rome, N. Y.
Supt. & Engr. P'g. Sta.,
Dudley D. Norton.....Cazenovia

Cazenovia Lake & wells, 2 tubular 6-in. 45 & 90 ft. deep; at center distribution; no purification.

Pump, triplex Goulds belted to elec. motor, 15-hp. 80 amp. 208 v. 60 cys. Wagner; elec. energy from Cazenovia Electric Co.; pumping direct & to reservoir, 8,000,-000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 69; meters, 430 mostly Neptune; av. daily cons. 200,000 gal.; ord. pres. 35 to 79 lb., fire pres. same.

Rates: meter, 18c. 1000 gal.

CHAFFEE, 300.

THE CHAFFEE WATER WORKS CO.

Pres., A. J. O'Dell.....Chaffee
V. Pres., James C. Carlin..... "
Sec. & Treas., Roy B. Charles..... "
Gen. Mgr., J. C. Carlin..... "

Wells, 2 tubular 6 & 8-in. 21 & 27 ft. deep; ¼ mi. from center business section; no purifition.

Pumps, 1-864,000 gal. hor. duplex Jewell 1911 belted to gasoline engines, 2 3.5 & 4.5-hp. New Way 1911-14; 1-864,000 gal. hor. duplex Jewell 1914; pumping to standpipe (1902) 30,000 gal.

Av. daily cons. 4500 gal.; serv. con. 35.

Rates: flat, $5 year, bath $2 closet $3.00.

CHATHAM, 2,251.

MUNICIPAL.

Comr., S. D. Whalen.....Chatham
" W. P. Pratt..... "
" Chas. Harmon..... "
Supt., Geo. J. Clarke..... "

Wells, 21 artesian 2-in. 32 ft. deep; ½ mi. from center distribution.

Boilers, hor. 100-hp.; hand stoking; pumps, 1-864,000 gal. steam Deane, 1-576,-000 gal. Goulds d. con. to electric motor, 40-hp. 220 v. 2 ph. 60 cys.; elec. energy from Chatham Elec. Heat & Pwr. Co.; pumping direct & tor eservoirs, 3,240,000 gal.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 2½-in. R. D. W.; valves, 50 r. & l. h. thd. Ludlow & R. D. W.; meters, 300 various; av. daily cons. 360,000 gal.; serv. con. 700; ord. pres. 80 lb., fire pres. same.

Rates: flat, $8 year, bath $3, closet $4; meter, 30c. 1000 gal. max., 11c. min.

CHERRY CREEK, 606.
MUNICIPAL.
Pres. & Trustees,
H. A. Damon.....Cherry Creek
Trustee, M. H. Butler..... " "
" Chas. Stolts..... " "
Sec., H. A. Taber..... " "
Supt., J. L. Price..... " "
Springs & reservoir, 220,000 gal.; settling basins, 2; gravity distribution from elev. tank (1911) 220,000 gal. concrete.
Rates: flat, $1.00 6-mo., bath $1; meter, min. charge $5 year 1000 cu. ft. 50c. 1000 cu. ft. max., 12c. 1000 min.

CLAYTON, 1,941.
MUNICIPAL.
Chmn. Comr., F. B. Kittle.....Clayton
Comr., W. D. Lautier..... "
Sect., S. W. Gay..... "
" C. E. Haas..... "
Supt., O. L. Winslow..... "
Engr. P'g. Sta., E. Harrell..... "
St. Lawrence River.
Boilers, one wtr. tube 75-hp. 100 lb. B. & W. 1899, one hor. tubular 100-hp. 100 lb. Gem. 1905; pumps, 1-1,080,000 gal. hor. simple d. act. Deane 1899, 1-1,269,000 hor. comp. d. act. Deane 1903; pumping to standpipe (1899) 275,000 gal.
Hyd. 51, hose con. 2½-in. Ludlow; meters, 30 National; av. daily cons. 300,000 gal.; serv. cons. 500; ord. pres. 45 lb., fire pres. 100 lb.

CLEVELAND, 687.
CLEVELAND WATER CO.
Pres., A. P. Knight..... Rome
V. Pres., James Gallagher.....Cleveland
Sec., Treas. & Supt., S. F. Potter
West Vienna
Cons. Engr., C. W. Knight.....Rome
Springs & impounding reservoir, 1,000,000 gal.; 2 mi. from center business section; gravity distribution.
Pipe, 5.25 mi. 4 to 10-in. c. i.; hyd. 43, hose con. 2½-in. Ludlow; valves, 41 r. h. opening Ludlow; meters, 9; serv. con. 102; ord. pres. 60 lb., fire pres. same.
Rates: flat, $6 year, bath $4, closet $4.00.

CLIFTON SPRINGS, 1,600.
MUNICIPAL.
Pres. Comr., R. L. Leland...Clifton Springs
Comr., J. E. Short..... " "
" Harry Haney..... " "
Sec., C. D. Hill..... " "
Supt., G. A. Durkee..... " "
Springs & impounding reservoir, 3,000,000 gal.; 5.75 mi. from center business section; settling basins, 50,000 gal.; gravity distribution.
Pipe, 10 mi. 6 to 10-in. c. i.; hyd. 63, hose con. 2½-in.; valves, 49 l. h. opening, meters, 146 Buffalo & Hersey; serv. con. 416; ord pres. 70 to 110 lb.
Rates: $6.60 year; meter, min. charge $6.60 year 20,000 gal., 15c. 1000 gal.

CLINTON, 1,236.
MUNICIPAL.
Supt., Frank Pegman.....Clinton

CLYDE, 2,695.
CLYDE WATER SUPPLY CO.
Pres., H. W. Smith
55 Congress St., Boston, Mass.
Supt., A. E. Lundy.....Clyde
Wells, 15 ft. diam. 25 ft.; one mi. from center business section.
Boilers, 2 hor. 50-hp. ea. 100 lb. 1888; pumps, 2-1,000,000 gal. hor. comp. duplex Buffalo 1888 ; 1906; pumping to standpipe (1888) 200,000 gal.
Pipe, 6 mi. 4 to 10-in. c. i.; hyd. 59; hose con. 3-in. Ludlow; valves, 24 r. h. opening; meters, 210 Buffalo, Hersey & Gamon; av. daily cons. 150,000 gal.; serv. con. 450; ord. pres. 75 to 85 lb., fire pres. same.
Rates: flat, $5 year, bath $5, closet $5.

COBLESKILL, 2,080.
MUNICIPAL. COBLESKILL WATER CO.
Chmn. Comr., James S. Fuller...Cobleskill
Supt., Geo. Van Buren..... "

COHOES, 240,709.
MUNICIPAL.
Supt., Frank R. Dawson.....Cohoes
Asst. Supt., John W. Keefe..... "
Cons. Engr., H. W. Taylor,
100 State St., Albany, N. Y.
Ch. Engr. P'g. Sta., John Mulcahy...Cohoes
Chemist, Wm. I. Van Arnum..... "
Mohawk River; settling basins, 2-40 x 50 x 20 ft.; mechanical filters, 8,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.
Pumps, 8-27,000,000 gal. Deane, Goulds & Holly; producer gas engines, 125-hp. Westg.; elec. motors, 3 55-hp. 100 v. d. c. Westg.; elec. energy from Cohoes Gas & Elec. Co.; pumping to reservoir, 12,000,000 gal. & standpipe (1912) steel.
Pipe, 22 mi. 4 to 30-in. c. i.; hyd. 500, hose con. 3 & 4-in. Ludlow, Eddy & Rensselaer; valves, 1000 r. h. thd. Ludlow, Eddy & Rensselaer; meters, 36 Neptune & National; av. daily cons. 7,000,000 gal.

COOPERSTOWN, 2,484.
COOPERSTOWN AQUEDUCT ASSOCIATION.
Supt., W. P. Johnson.....Cooperstown

CORNING, 13,730.
MUNICIPAL.
Mayor, N. L. Lattin.....Corning
Chmn. Comrs., Alfred Maltby..... "
Supt. & Des. Engr., Wm. O. Drake "
Cons. Engr., Henry W. Taylor,
100 State St., Albany, N. Y.
Asst. Supt., Spencer T. Lewis.....Corning
Ch. Engr. P'g. Sta.,
William L. Thomas..... "
Chemist, Dr. James C. Pinkstan... "
Springs; ½ mi. from center distribution; impounding reservoir, 5,970,000 gal.; chemical, hypochlorite of lime.

Pumps, 2-5,000,000 gal. Goulds & Rumsey d. con. to gas engines, 2 175-hp. ea. National; pumping direct & to reservoir, 2-5,000,000 gal.

Pipe, 27.3 mi. 4 to 30-in. c. i.; hyd. 282, hose con. 2½-in. R. D. W. & Darling; valves, 349 Eddy, Smith & Kennedy; meters, 2825 various; av. daily cons. 1,240,000 gal.; serv. con. 2857; ord. pres. 2 to 104 lb., fire pres. same.

Rates: flat, $8 year; meters, min. charge $1.40, 9c. 1000 gal. max., 1c. min.

CORTLAND, 11,504.

MUNICIPAL.

Comr., G. T. Maxon.....Cortland
" B. C. Winchell..... "
" F. B. Nourse..... "
" G. F. Cooper..... "
" Henry Corcoran..... "
" M. A. Case..... "
Supt., E. W. Ott..... "
Cons. Engr., H. C. Hodgkins,
513 Dillaye Bldg., Syracuse

Springs & wells, 20 ft. in diam. 14 ft. deep; one mi. from center distribution; no purification.

Boilers, 2 hor. tubular 80-hp. Ames; hand stoking; pumps, 2-3,500,000 gal. Worth.; pumping to standpipes (1884, 1911) iron.

Pipe, 26 mi. 4 to 30-in c. i.; hyd. 242, hose con. 2½-in. Ludlow; valves, 265 r. h. thd. Ludlow; meters, 1732 Thomson, National, Neptune, Hersey & Pittsburgh; av. daily cons. 1,084, 000 gal.; ord. pres. 70 to 78 lb., fire pres. 70 to 140 lb.

Rates: flat, $15 year; meter, 40c. 1000 gal. max., 4¾ c. min.

SYRACUSE SUBURBAN WATER CO. (Cortland Division.) Supplies N. Y. C. R. R. Owned & controlled by same interests as Western New York Water Co., 704 Electric Bldg., Buffalo, N.Y. See Buffalo.

Pres., F. S. McGraw.....Buffalo
V. Pres., W. B. Cutter..... "
Sec.-Treas., D. J. Hibbard..... "
Gen. Mgr., H. F. Huy..... "
Supt., D. R. Finkbeiner Croton-on-Hudson

Jamiwissis River & Furnace Brook; 3 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 2-66,000,000 gal.

Pipe, 6.75 mi. 4 to 30 in. c. i.; hyd. none; valves, 49 l. h. thd. Ludlow; meters, 12; av. daily cons. 600,000 gal.; serv. con. 12; ord. pres. 20 to 50 lb., fire pres. same.

Rates: flat, $5 year; meter, min. charge $3 quarter 10,000 gal.

CROTON-ON-HUDSON, 1,806.

MUNICIPAL.

Vil. Pres.,
Chas. E. Anderson....Croton-on-Hudson
Chmn. Comrs.,
Geo. W. Baker..... " " "
Clerk, John G. Finnerty. " "
Supt., Frank B. Altz.... " " "

Croton River & well, 12 x 20 ft. 9 ft. deep; 1½ mi. from center distribution.

Pumps, 1-720,000 gal. centrifugal Worth, driven by elec. motor, 2200 v. 2 ph. 60 cys. G. E.; elec. energy from Northern Westchester Lighting Co.; pumping to reservoir, 400,000 gal.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 54, hose con. 2½-in. R. D. W.; valves, 117 r. h. thd. R. D. W.; meters, 200 mostly Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 200; ord. pres. 60 to 155 lb., fire pres. same.

Rates: all meter, min. charge $5 year, 10c. 100 cu. ft.

CROWN POINT, 978.

CROWN POINT WATER WORKS CO.

Pres. & Gen. Mgr., James E. Pond,
Crown Point
V. Pres. & Sec., S. E. Pond.... " "

Springs & wells, 5 tubular 6-in. & 2 to 4 ft. diam.; reservoir, 20,000 gal.; gravity distribution.

Pipe, 3.25 mi. 4-in. c. i.; hose con. 2½-in.; valves, 5 l. h. opening; serv. con. 60; ord. pres. 25 to 50 lb.

Rates: flat, $6 year, bath $3, closet $1.50.

CUBA, 1,556.

MUNICIPAL.

Pres. Trustee, F. W. Hogg.....Cuba
Trustee, M. A. Coon..... "
" P. J. Kunan..... "
Sec., W. H. Keller..... "
Supt., E. H. Bartle..... "

Springs & wells, 3 artesian 8-in. 90 to 250 ft. deep; 2.5 mi. from center business section; impounding reservoir, 800,000 gal.

Pump, 1-9000 gal. vert. triplex Goulds 1908 d. con. to gas engine, Oil City; air compressors, 258 cu. ft. Ingersoll-Rand 1908 driven by gas engine, 40-hp. Olin; pumping to reservoir, above.

Pipe, 15 mi. 4 to 8-in. c. i.; hyd. 45, hose con. 2½-in. Ludlow; valves, 30 r. h. opening Ludlow; meter, 30 Pittsburg, Buffalo & Neptune; av. daily cons. 150,000 gal.; serv. con. 400; ord. pres. 60 to 85 lb., fire pres. same.

Rates: flat, $5 year, bath $3, closet $3.

DANSVILLE, 3,938.

MUNICIPAL.

Pres., Oscar Woodruff.....Dansville
Sec., W. F. Kelly..... "
Treas., Dr. B. P. Andrews..... "
Supt., John M. Burke..... "

Little Mill Creek & Zeigenfuss Springs; 1¾ mi. from center distribution.

Gravity distribution from reservoir, 3,500,000 gal.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 125, hose con. 2½-in. Eddy; valves, 150 r. h. thd. various; meters, none; av. daily cons. 600,000 gal.; serv. con. 950; ord. pres. 45 to 110 lb., fire pres. 43 to 115 lb.

Rates: flat, $5 year, bath & closet, $7; meter, 12c. 1000 gal.

DEANSBORO, 350.

DEANSBORO WATER CO.

Pres. & Des. Engr., A. R. Skerritt Deansboro
V. Pres., D. W. Barton..... "
Sec. & Treas., C. B. Miller..... "
Supt., Edward Patterson..... "
Engr. P'g. Sta., J. B. Barker.... "
Chemist, Howard Miller..... "

Springs; ¾ mi. from center distribution; gravity distribution from reservoir, 523,000 gal.

Pipe, 4 & 6-in. c. i.; hyd. 17, hose con. 2½-in. Pratt & Cady; valves, 6 r. h. thd. Kennedy; meters, none; av. daily cons. 12,000 gal.; serv. con. 68; ord. pres. 45 lb., fire pres. same.

Rates; flat, $5 year, closet $2.

DEERFIELD, 691.

SUPPLIED BY CONSOLIDATED WATER CO. See Utica.

DELHI, 1,736.

MUNICIPAL.

Chmn. Comr., W. I. Mason.....Delhi
Comr., M. E. Arbuckle..... "
" F. S. Adee..... "
Supt., James Middlemont..... "

Steels Brook & Spring Lake; one mi. from center business section; no purification; gravity distribution reservoirs, 2.

Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 100, hose con. 2½-in. R. D. W. & Ludlow; valves, 150 r. h. opening; meters, 4 Buffalo; serv. con. 420; ord. pres. 86 lb., fire pres. same.

Rates: flat, $10 year; meter, 30c. 1000 gal. max., 20c. min.

DEPOSIT, 1,064.

DEPOSIT WATER COMPANY. Office, Front St.

Pres., E. Frank Smith.....Deposit
Sec., Treas. & Pur. Agt.,
J. J. Keown..... "
Supt., C. S. Minor..... "
Cons. Engr., Chas. C. Hopkins...Rochester
Chemists, Nelson & Lauder....Binghamton

Impounding reservoir fed by springs & Butler Brook, 1-25,000,000 gal.; 2 mi. from center distribution; settling basins, 2,500,000 gal.; slow sand filter, 500,000 gal., filtering area 0.11 acre; clear water basin.

Gravity distribution from clear water basin 177,000 gal.; pipe, 7 mi. 4 to 10 in. c. i.: hyd. 50, hose con. 2½-in. Rensselaer; valves, r. h. opening; meters, 7 Pittsburgh & Union; av. daily cons. 250,000 gal.; serv. con. 450; ord. pres. 70 to 75 lb., fire pres. same.

Rates: flat, $7 6 mo., bath $2.50, closet $2.50.

DOBBS FERRY, 3,455.

SUPPLIED BY THE CONSOLIDATED WATER CO. OF SUB. NEW YORK. See North Tarrytown.

DOLGEVILLE, 3,685.

MUNICIPAL.

Pres., Comrs., H. H. Dopp.....Dolgeville
Comr., Chas. Bower..... "
" J. M. Kelley..... "
" Wm. H. Petrie..... "
" E. H. White..... "
Supt., W. H. Bacon..... "

Cold Creek; 3¾ mi. from center distribution; no purification.

Gravity distribution from reservoir, 2,400,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 68, hose con. 2½-in. Ludlow; valves, 73 l. h. thd. Ludlow; meters, none; serv. con. 650; ord. pres. 90 to 120 lb., fire pres. same.

Rates: flat, $4 year, bath $2.50, closet $2.

EAST HAMPTON, 1,400.

HOME WATER CO.

Pres., J. Hunting.....East Hampton
Sec. & Treas., J. S. Osborne. " "
Mgr. D. J. Gardner..... " "
Engr. P'g. Sta., Wm. Ahle... " "

Wells, 4 tubular 6 to 10-in. 75 ft. deep.

Pumps, 2-1,100,000 gal. ea. Jewell driven by gas engine, 2 50-hp. ea. National; pumping to standpipe (1888) iron.

Pipe, 7 mi. 4 to 8-in. c. & w. i.; hyd. 60. hose con. 3-in. Kennedy; meters, 50 Thomson; av. daily cons. 200,000 gal.; serv, con. 425; ord. pres. 45 lb., fire pres. 80 to 90 lb.

Rates: flat, $20 year including bath & closet; meter, 40c. 1000 gal. max. 20c. min.

EAST SYRACUSE, 3,274.

SUPPLIED BY THE SYRACUSE SUB. WATER CO. See Syracuse.

EBENEZER, 750.

EBENEZER MFG. & SUPPLY CO.

Pres., S. J. Brown.....Ebenezer
V. Pres., Sec., Gen. Mgr. & Pur. Agt.
C. E. Brown.....Ebenezer
Treas., E. E. Doster.....Gardenville

Well, 7 ft. diam. 22 ft. deep; near business section; no purification.

Pump, 1-75,000 gal. vert. triplex Goulds 1909 belted to gas engine, 10-hp. Lozier 1909; air compressor, one 1909; pumping to tank (1909) 65,000 gal. steel.

Pipe, one mi. one to 3-in. galv. i.; hyd. one; valves, 2; av. daily cons. 6000 gal.; serv. con. 22; ord. pres. 20 to 60 lb., fire pres. 20 to 80 lb.

Rates: flat, $6 year.

EDMISTON, 749.

EDMISTON WATER WORKS CO.

Pres., A. C. Morehouse.....Edmiston
V. Pres., Gen. Mgr. & Pur. Agt.,
Homer Underwood..... "
Treas., A. P. Underwood..... "

Springs & impounding reservoirs, 2-700,000 gal.; no purification; gravity distribution from reservoirs.

Pipe, 6 mi. 6 to 10-in. c. i.; hyd. 20, hose con. 2½-in. Ludlow; valves, 10 r. h. opening Ludlow; meters, none; av. daily cons. 100,000 gal.; serv. con. 150; ord. pres. 60 to 105 lb., fire pres. same.

Rates: flat, $18 year including bath & closet.

ELLENVILLE, 3,114.

MUNICIPAL.

Supt., John Faber.....Ellenville

ELIZABETHTOWN, 505.

ELIZABETHTOWN WATER CO.

Sec., Treas. & Supt.,
Levi Pond.....Elizabethtown

Springs; 2 mi. from center business section; reservoir, 125,000 gal.; gravity distribution.

Hyd. 25, hose con. 3-in.; valves, 22; meters, none; serv. con. 190; ord. pres. 120 lb., fire pres. same.

Rates: flat, $10 year, bath $3, closet $3.

ELMHURST.

CITIZENS WATER SUPPLY CO. Also supplies part of Long Island City.

Pres., J. E. Meyer.....Great Neck
V. Pres., J. H. Bick.....New York
Sec., C. G. Meyer.....Bayside
Treas., Bernard Suydam.....Elmhurst

ELMIRA, 37,176.

ELMIRA WATER, LIGHT & R. R. CO. Supplies Elmira Heights. (Controlled by United Gas & Elec. Co. Office, 61 Broadway, New York, N. Y.

Gen. Mgr., F. H. Hill.....Elmira
Sec. & Treas., C. A. Kolstad..... "
Chemist, James M. Caird..... "
Supt., Andrew Dillon..... "
Engr. P'g. Sta., H. F. Jones..... "

Chemung River & impounding reservoir, 95,000,000 gal.; 2 mi. from center distribution; mech. filters, 7,000,000 gal. N. Y. C. Jewell; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, 2 water-tube 250-hp. Edge-Moor; hand stoking; pumps, 1-7,500,000 gal. Worth., 1-10,000,000 gal. Worth., 1-10,000,000 gal. centrifugal De Laval driven by elec. motors, 250-hp. 220 v. G. E., 1-14,000,000 gal. centrifugal De Laval driven by elec. motors, 350-hp. G. E., 1-1,000,000 gal. centrifugal Worth. d. con. to elec. motor, 90-hp.; pumping direct & to reservoir, 5,200,000 gal.

Pipe, 91 mi. 4 to 30-in. c. i.; hyd. 563, hose con. 2½ to 4-in. R. D. W.; valves, 741 r. h. thd.; meters, 4181; av. daily cons. 6,000,000 gal.; serv. con. 8,291; ord. pres. 60 to 150 lb., fire pres. same.

Rates: flat, $6 year, bath $4, closet $4; meters, min. charge $3 quarter 10,000 gal. 40c. 1000 gal. max., 10c. min.

ELMIRA HEIGHTS, 2,732.

SUPPLIED BY ELMIRA WATER, LIGHT & R. R. CO. See Elmira.

FAIRPORT, 3,112.

MUNICIPAL.

Chmn. Comr., W. H. Dobbin.....Fairport
Comr., W. T. Clapp..... "
Sec., I. B. Eldridge..... "
Supt., C. J. Sullivan..... "

Wells, 4 tubular 6-in. 75 to 100 ft. deep; ¼ mi. from center business section.

Boilers, 3 return tubular 150-hp. ea 100 lb. Keeler 1910 & one Peck 1901; pumps, 1-120,000 gal. hor. comp. d. act. Blake; 1-336,000 gal. vert. triplex Goulds; pumping to standpipe (1893) 300,000 gal.

Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 75, hose con. 2½-in. Ludlow; valves, 55 l. h. opening Rensselaer; meters, 705 Bourbon, Columbia & Buffalo; av. daily cons. 340,000 gals. 60%; serv. con. 858; ord. pres. 75 to 90 lb., fire pres. same.

Rates: flat, $1.25 year; min. charge $1.20 quarter 6000 gal., 20c. 1000 gal. max., 10c. min.

FILLMORE, 633.

THE FILLMORE WATER CO.

Pres. & Supt., Chas. Ricker.....Fillmore
V. Pres., N. M. Wells..... "
Sec., R. L. Richardson..... "

Springs; 2 mi. from center distribution; gravity distribution from reservoir, 50,000 gal.

Hyd. 2, hose con. 2½-in. Ludlow; av. daily cons. 37,000 gal.; serv. con. 140; ord. pres. 50 to 70 lb., fire pres. same.

Rates: flat, $6 year, bath & closet $10.

FLORAL PARK, 1,325.

SUPPLIED BY JAMAICA WATER SUPPLY CO. See Jamaica.

FLORIDA, 600.

FLORIDA WATERWORKS CO.

Pres. & Supt., Fred Green.....Florida
Sec. & Treas., K. G. Sturr..... "
V. Pres., L. D. Adams..... "

Glenmere Lake; 2 mi. from center distribution; no purification.

Gravity distribution from reservoir, 640 acres.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 19, hose con. 2½-in. Kennedy & R. D. W.; valves, 9 r. h. thd. Kennedy; meters, none; serv. con. 120; ord. pres. 20 to 45 lb., fire pres. same.

Rates: flat, $5 year, bath $4, closet $4.

FORESTVILLE, 721.

MUNICIPAL.

Vil. Pres., George Knapp.....Forestville
Trustee, Wm. Miller..... "
" John Stafford..... "
Supt., Fred Horton..... "
Vil. Clerk, Chas. McNeal..... "

Springs; 5 mi. from center distribution.

Gravity distribution from reservoir; serv. con. 200; ord. pres. 100 lb., fire pres. same.

FORT PLAIN, 2,762.

MUNICIPAL.

Pres. Comr., A. E. Tanner..... Fort Plain

Comr., Louis Yerdon.....Fort Plain
" Geo. Duffy..... " "
Clerk, C. B. Snell..... " "
Supt., Chas. Henneburg..... " "

Springs & impounding reservoirs, 12,000,000 gal.; 9 mi. from center business section; no purification; gravity distribution.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 77, hose con. 2½-in. Eddy; valves, 41 r. h. opening; meters, 49, Neptune; av. daily cons. 450,000 gal. 67%; serv. cons. 669; ord. pres. 40 to 90 lb., fire pres. same.

Rates; meter, min. charge $2.35 quarter, 15c. 100 cu. ft. max., 2c. min.

FRANKFORT, 3,303.

MUNICIPAL.

Chmn. Comrs., Jos. Steckel.....Frankfort
Comr., F. A. Thurston..... "
" G. A. Taylor..... "
Supt. & Engr. P'g. Sta.,
Thos. Honohan..... "

Springs; 3 mi. from center distribution; no purification.

Gravity distribution from reservoir, 1-9,000,000 gal.

Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 75, hose con. 2½-in. Ludlow & Chapman; valves, 75 l. h. opening Ludlow; meters, 350; serv. con. 700; ord. pres. 65 to 100 lb., fire pres. same.

Rates: flat, $5 year, bath $3, closet $3, meter, min. charge $7 year 25,000 gal., 24c. 1000 gal. max., 7c. min.

FRANKLIN, 300.

MUNICIPAL.

Pres. Comr., A. E. Austin.....Franklin
Comr., Geo. S. Ostranger..... "
" Andrew P. Wigham..... "
Supt., Geo. B. Chamberlain..... "

Springs & impounding reservoir, 224,000 gal.; one mi. from center business section; no purification; gravity distribution.

Pipe, 4 to 8-in. c. i.; hyd. 20, hose con. 2½-in.; valves, 12 l. h. opening; meters, 100; serv. con. 125; pres. ord. 85 to 95 lb., fire pres. same.

Rates: meter, min. charge $1.25 quarter 335 cu. ft., 6c. 1000 gal.

GENESEO, 2,067.

MUNICIPAL.

Pres. Comrs., W. A. Wadsworth....Geneseo
Sec. & Treas., Theo. F. Olmsted.... "
Supt., Geo. R. Meeker..... "

Conesus Lake; 5 mi. from center distribution; chemical, copper sulphate.

Boilers, one hor. tubular 100-hp. Vance, one hor. tubular 125-hp. Union; hand stoking; pumps, 1-850,000 gal. Holly, 1-850,000 gal. Deane; pumping to reservoir, 2-2,380,000 gal.

Pipe, 12.7 mi. 4 to 12-in. c. i.; hyd. 92, hose con. 2½-in. Ludlow; valves, 74 l. h. opening Rensselaer; meters, 298 various; av. daily cons. 311,000 gal.; serv. con. 571; ord. pres. 40 to 156 lb., fire pres. same.

Rates: flat, $6 year, bath $5, closet $5; meter, 30c. 1000 gal. max., 16c. min.

GENEVA, 12,446.

MUNICIPAL. Board of Public Works.

Pres., Walter Howard.....Geneva
Mbr., W. C. Warren..... "
" H. A. West..... "
" John Jones..... "
Supt., H. K. Seybold..... "
Des. Engr., J. W. Brennan..... "
Engr. P'g. Sta., R. Hill..... "
Chemist, Nicholas S. Hill, Jr.,
100 William St., New York, N. Y.

Seneca Lake & impounding reservoir, 2,000,000 gal.; one mi. from center distribution; slow sand filters, 2,000,000 gal., filtering area 0.42 acre; chemicals, none.

Boilers, 2 hor. tubular 107-hp. ea. 125 lb. Robb 1913, one hor. tubular 150-hp. 125 lb. Vance 1903; hand stoking; pumps, 1-4,000,000 gal. cross comp. c. & f. wh. Snow 1913; 2-2,000,000 gal. centrifugal 1913 d. con. to steam engines, 2 12-hp. ea. American Blower 1913; pumping to reservoirs, above.

Pipe, 38 mi. 4 to 20-in. c. i.; hyd. 289, hose con. 2½-in. R. D. W.; valves, 423 r. h. opening Ludlow; meters, 3100 Neptune, National & Pittsburgh; av. daily cons. 2,000,000 gal. 60%; serv. con. 3200; ord. pres. 80 to 110 lb., fire pres. same.

Rates; meter, min. charge $1.25, 15.5c. 100 cu. ft. max., 4.5c. min.

GILBERTSVILLE, 455.

MUNICIPAL.

Vil. Pres., John Haukey.....Gilbertsville
Trustee, Wm. M. Hakes..... "
" W. E. Barnes..... "
Vil. Clerk & Supt.,
E. M. Holden..... "

Dunderberg Creek; 1½ mi. from center distribution; settling basins, 6 x 8 ft.; chemical, liquid chlorine.

Gravity distribution from reservoir, 175,000 gal.; pipe, 6 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in. Eddy; av. daily cons: 50,000 gal.; serv. con. 176; ord. pres. 55 to 100 lb., fire pres. 100 lb.

Rates: flat, $5 year, bath & closet $9.

GLEN COVE, 3,875.

NASSAU COUNTY WATER CO. Office 51 Chambers St., New York, N. Y.

Pres., M. J. Drummond.....New York

GLENS FALLS, 15,243.

MUNICIPAL.

Supt., E. Weller Smith.....Glens Falls
Ass't. Supt., Geo. M. Dougrey.. " "
Supt. Reservoir, H. G. McEchron " "

Impounding reservoirs, 1-415,000,000 gal. 4.5 mi. from center distribution; gravity distribution.

Pipe, 50 mi. 4 to 24-in. c. i.; hyd. 343, thd. hose con. 2½-in. Ludlow; valves, 463 r. h. Ludlow, meters, 15 Neptune; av. daily cons. 2,300,000 gal.; serv. con. 3400; ord. pres. 80 to 100 lb., fire pres. 80 to 120 lb.

Rates: flat, $2 6 mo., bath $1.50, closet $2.00; meter, 12c. 100 cu. ft. max., 2.5c. min.

GLOVERSVILLE, 20,642.
MUNICIPAL.
Supt., Alexander Orr.....Gloversville
Springs & mountain streams; 2½ to 7 mi. from center distribution; no purification.
Gravity distribution from impounding reservoir, 193,000,000 gal.
Pipe, 39.34 mi. 4 to 18-in. c. i.; hyd. 351, hose con. 2½-in. Ludlow, R. D. W. & Eddy; valves, 469 r. h. thd. Ludlow & R. D. W.; meters, 3950 various; av. daily cons. 1,500,000 gal.; serv. con. 3966; ord. pres. 45 to 90 lb., fire pres. 85 to 135 lb.
Rates: all meter, min. charge $2 6-mo., 12c. 100 cu. ft. max., 2½c. min.

GOSHEN, 6,081.
MUNICIPAL.
Vil. Pres., Geo. F. Grege.....Goshen
Clerk, W. E. Lovett..... "
Supt., F. C. Hock..... "
Impounding reservoir, one mi. from center distribution.
Gravity distribution.
Hydrants, Kennedy, meters, 5; serv. con. 1100.

GOWANDA, 2,012.
GOWANDA WATERWORKS CO.
Pres., Francis E. Welch.....Gowanda
V. Pres., G. S. Welch..... "
Sec., Treas. & Gen. Mgr.,
W. W. Welch..... "
Impounding reservoir fed by springs, 3,000,000 gal.; one mi. from center business section.
Gravity distribution from impounding reservoir; pipe, 2 to 8-in. c. & w. i.; hyd. 24, hose con. 3¼-in.; valves, 42 l. h. opening; meters, 2; serv. con. 500; ord. pres. 55 to 74 lb., fire pres. same.

GRANDVILLE, 6,290.
MUNICIPAL.
Supt. Chas. H. White.....Grandville

GREEN ISLAND, 4,373.
GREEN ISLAND WATER SUPPLY CO.

GREENPORT, 3,089.
MUNICIPAL.
Supt. Wm. H. Redmond.....Greenport

GREENVILLE, 370.
GREENVILLE WATER CO.
Supt., D. E. Powell.....Greenville
Des. Engr., H. Budd..... "
Springs; one mi. from center distribution; settling well, 4 ft. sq.; charcoal filter.
Gravity distribution from reservoir, one acre.
Pipe, 1.5 mi. 4 to 12-in. c. i.; hyd. 12, hose con. 3-in. Bourbon; serv. con. 49; ord. pres. 55 lb., fire pres. same.

GREENWICH, 2,314.
GREENWICH UNION WATERWORKS CO.
Pres., Dr. Henry Gray.....Greenwich
V. Pres., M. Sown.....Greenwich
Sec. & Treas., C. L. Morey..... "
Supt., Floyd Westinghouse..... "
Brook & springs; 3 mi. from center distribution; reservoirs, 2-10,000,000 gal.; chemical, liquid chlorine.
Pumps driven by kerosene engine, 30-hp. International; pumping to reservoir.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. R. D. W. & Ludlow; valves, 25 r. h. opening Eddy, Ludlow & R. D. W.; av. daily cons. 250,000 gal.; serv. con. 365; ord. pres. 40 to 65 lb., fire pres. 65 to 125 lb.
Rates: flat, $6 year, bath $4, closet $4.

GROTON, 1,260.
MUNICIPAL.
Supt., J. B. Hunt.....Groton

HAMILTON, 1,689.
MUNICIPAL.
Comr., A. N. Smith.....Hamilton
" C. O. Wedge..... "
" J. M. Taylor..... "
Supt., E. L. Kingsbury..... "
Spring Lake; 1½ mi. from center distribution; slow sand filter, 1,500,000 gal.; chemical, none.
Boilers, 3 hor. return tubular 280-hp. Stearns, & Erie; pumps, 3-2,000,000 gal. 2 Nordberg d. con. to Corliss engines & one comp. duplex Worth.; pumping direct & to standpipe (1895) steel.
Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 84, hose con. 2½-in. R. D. W.; valves, 75 l. h. thd. Rensselaer; meters, 400 National; av. daily cons. 125,000 gal.; serv. con. 400; ord. pres. 90 to 100 lb., fire pres. same.
Rates; meter, min. charge $1.50 quarter, 30c. 100 cu. ft. max., 10c. min.

HAMMONDSPORT, 1,254.
Pres. Comr., John Davis...Hammondsport
Comr., J. W. Caplin..... "
Sec., John Friedell..... "
Supt., Chas. M. Younglove. "
Lake Keuka; ¼ mi. from center business section; reservoir, 1-500,000 gal., no purification.
Boiler, hor. return tubular 50-hp. 100 lb. Erie 1897; pumps, 1-100,000 gal. hor. s. Deane 1912, 1-75,000 gal. s. Snow 1897; pumping to reservoir above.
Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 45, hose con. 2½-in. Ludlow; valves, 25 r. h. opening Ludlow; meters 325 Thompson; av. daily cons. 75,000 gal. 75%; serv. con. 325; ord. pres. 125 to 135 lb., fire pres. same.
Rates, meter, min. charge $5 year 1000 cu. ft.; 20c. 100 cu. ft.

HANCOCK, 1,329.
THE HANCOCK WATER COMPANY.
Pres., Mrs. Martha Keely.....Hancock
Sec., Gen. Mgr. & Pur. Agt.,
S. N. Wheeler..... "
Springs & reservoirs, 3-6,000,000 gal.; 2 mi. from center business section; slow sand filters, 180,000 gal.

Pump, 1-180,000 gal. vert. International driven by gasoline engine, 20-hp. International 1000; pumping to reservoirs, 2-4,000,000 gal.

HARTSDALE, 330.

MUNICIPAL.

Pres. Comrs., Roy Briggs.....Hartsdale
Sec., J. E. Walker..... "
Treas., B. S. Townsend..... "

Take water from White Plains lines.

Pipe, 2 mi. c. i.; hyd. 40, hose con. 2½-in. Rensselaer; valves, 60 r. h. opening Rensselaer; meters, 80 Neptune; av. daily cons. 5000 gal.; serv. con. 80; ord. pres. 75 lb., fire pres. same.

Rates: meter, min. charge $1.50 quarter 500 cu. ft.

HASTINGS, 4,552.

SUPPLIED BY CONSOLIDATED WATER COMPANY OF SUBURBAN NEW YORK. See North Tarrytown.

HAVERSTRAW, 5,669.

PRIVATELY OWNED.

Supt., Martin Driscoll.....Haverstraw

HERKIMER, 7,520.

MUNICIPAL.

Pres. Comrs., M. Foley.....Herkimer
V. Pres., W. P. Munson..... "
Comr., C. R. Snell..... "
" T. M. Groyan..... "
Sec., E. W. Sluyter..... "
Cons. Engr., F. K. Baxter..... Utica
Engr. P'g. Sta., W. W. Reynolds, Herkimer

Wells, 43 tubular 6-in. 30 ft. deep; ½ mi. from center business section.

Boilers, 3 hor. tubular 250-hp. ea. 120 lb. vert. comp. d. act. Knowles 1900; pumping to standpipe (1900) 530,000 gal.

Pipe, 14 mi. 4 to 8-in. c. i.; hyd. 150 hose con. 2½-in. Ludlow; valves, 170 l. h. opening Rensselaer; meters, 125; serv. con. 1857; ord. pres. 70 to 80 lb.

Rates: flat, $4 year, bath $3, closet $3; meter, min. charge $10 year, 10c. 1000 gal.

HICKSVILLE, 1,650.

NASSAU COUNTY WATER CO. Office, 51 Chambers St., New York, N. Y.
Pres., M. J. Drummond. New York, N. Y.

HIGHLAND, 1,570.

HIGHLAND WATER WORKS. (Privately owned.)
Pres., Philip Shantz.....Highland

HILLBURN, 1,090.

MOUNTAIN SPRING WATER CO.

Pres., F. W. Snow.....Hillburn
V. Pres., W. W. Snow..... "
Sec., H. C. Wanamaker.....Suffern
Treas., J. L. Suffern.....Hillburn
Supt., John Creelman..... "

Springs & wells, 4 ft. diam. 30 ft. deep, one mi. from center business section, reservoir, 10,000,000 gal.; pumping by Ramapo Iron Works; pumping direct & to reservoir above.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 2½-in. Ludlow; valves, 37 r. & l. h. opening; meters, 11; ord. pres. 125 lb., fire pres. same.

Rates; flat, $3 quarter; meter, min. charge $3 quarter 7,000 gal., 30c. 1000 gal.

HOLLAND, 800.

HOLLAND WATER WORKS CO.

Pres., Paul J. Wurst.....Holland
V. Pres., C. A. Button..... "
Sec., Gen. Mgr. & Pur. Agt., C. M. Sill..... "
Treas., Asher Cutler..... "

Springs; reservoir, 500,000 gal.; gravity distribution.

Pipe, 2 mi. 4 to 10-in. c. i. & wood; hyd. 18, hose con. 2½-in. Ludlow; valves, 8 r. h. opening; serv. con. 100; ord. pres. 60 lb., fire pres. same.

Rates: flat, $7.20 year, bath, $3.00, closet $3.00; meter, 35c. 1000 gal.

HOMER, 2,695.

MUNICIPAL.

Comr., Dr. H. S. Braman.....Homer

HONEOYE FALLS, 1,169.

MUNICIPAL.

Pres. Trustees, Levi Hill.....Honeoye Falls
Clerk, A. B. Neal..... " "
Supt., Frank Maltby..... " "
Cons. Engr., White & Getman.....Buffalo

Wells, 2 tubular 6 & 8-in. 100 & 150 ft. deep; 1000 ft. from center business section.

Pumps, 2-288,000 gal. vert. triplex d. con. to gas engines, 2 24-hp. ea. Olin 1914; air compressor 201 cu. ft. driven by gas engine; pumping to elev. tank (1914) 125,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 55, hose con. 2½-in. R. D. W.; valves, 33 l. h. opening R. D. W.; meters, 83 Pittsburgh; serv. con. 83; ord. pres. 50 to 70 lb., fire pres. same.

Rates: meter, min. charge $2 quarter 6000 gal.

HORNELL, 13,617.

MUNICIPAL.

Supt., W. E. Waldorf.....Hornell

HORSEHEADS, 1,778.

MUNICIPAL.

Supt. & Engr. P'g. Sta., S. Hull Bowers.....Horseheads

Springs; one mi. from center distribution.

Pumps, 2 288,000 gal. ea. Rumsey chain driven from elec. motors, 50-hp. 220 v. 3. ph. 60 cys. Westg.; elec. energy from Elmira Water, Light & R. R. Co.; pumping to reservoir, 275,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd 88, hose con. 2½-in. Rensselaer; valves, 80 l. h. opening Rensselaer; meters, 351

Buffalo & Hersey; av. daily cons. 70,000 gal.; ord. pres. 85 to 95 lb., fire pres. same.

Rates: meter, 20c. 1000 gal. max., 8c. min.

HUDSON, 11,417.

MUNICIPAL.

Pres. Comrs., Everts Ten Broeck...Hudson
Comr., Arthur S. Wardle..... "
" J. P. Mesick..... "
Supt., M. J. O'Hara..... "
Cons. Engr. & Chemist,
Nicholas S. Hill, Jr.,
100 William St., New York City
Engr. P'g. Sta., F. Van Benschoten, Hudson

Impounding reservoir, 83,000,000 gal.; 15 mi. from center distribution; slow sand filter, 2,500,000 gal.; chemical, liquid chlorine.

Boiler, one hor. tubular 125-hp. McEwan; hand stoking; pumps, 1-1,640,000 gal. auxiliary Worth.; gravity distribution from reservoir, 5,000,000 gal.

Pipe, 18 mi. 4 to 12-in. c. i;. hyd. 200, hose con. 4-in. various; valves, 325 r. h. thd. Ludlow; meters, 210 Pittsburgh, Neptune & Thomson; av. daily cons. 2,000,000 gal.; serv. con. 2000; ord. pres. 30 to 130 lb., fire pres. same.

Rates; meter, 5c. 1000 gal.

HUDSON FALLS, 5,189.

SPRING BROOK WATER CO. Office, 12 Wall St.

Pres., B. G. Higley.....Hudson Falls
V. Pres., Geo. Tait.....Glens Falls
Sec. & Treas., G. M. Flood...Hudson Falls
Supt., W. G. Aubrey..... " "
Engr. P'g. Sta., Leonard Dailey " "

Springs & impounding reservoirs; 4-4,000,000 gal.; ½ mi. from center business section; chemical, chlorine gas with Wallace & Tiernan Co., operators.

Boilers, 2 hor. 50-hp. ea. 90 lb. Franklin 1888 & 1895; hand stoking; pumps, 2-720,000 gal. hor. comp. d. act. Worthington 1895, 2-1,440,000 gal. vert. triplex Deane 1905 driven by elec. motor, 75-hp. 2200 v. 3 ph. 40 cys. G. E. 1905 & gas engine, 65-hp. Otto 1905, elec. energy from United Gas & Electric Co.; pumping to reservoirs & standpipe (1888) 320,000 gal.

Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 117, hose con. 2½-in. R. D. W.; valves, 121 r. h. opening various; meters, 87 National, Neptune & Worth.; av. daily cons. 600,000 gal.; serv. con. 1208; ord. pres. 40 to 50 lb., fire pres. same.

Rates: flat, $1.50 quarter, bath $1, closet $1; meter, min. charge $3 quarter 7500 gal., 40c. 1000 gal. max., 5c. min. fire pres. same.

HUNTINGTON, 5,000.

HUNTINGTON WATERWORKS CO.

Pres. & Treas., Henry S. Brush.Huntington
Sec., John F. Wood..... "
Supt., W. H. Sammons..... "
Engr. P'g. Sta., Walter Ketcham "

Wells, 9 tubular 4 & 6-in. 35 to 50 ft. deep; ⅜ mi. from center distribution.

Boilers, 2 80-hp.; pumps, 3-558,000 gal. Deane & 2 Worth.; pumping to compressed air reservoir, 300,000 gal.

Hyd. 110; meters, 900 mostly Thomson av. daily cons. 325,000 gal.; serv. con. 1146; ord. pres. 45 to 55 lb., fire pres. 55 to 66 lb.

Rates: flat, min. $2.50 quarter; meter, 50c. 1000 max., 30c. min.

HYDE PARK, 738.

SUPPLIED BY JAMAICA WATER SUPPLY CO. See Jamaica.

ILION, 6,588.

MUNICIPAL.

Pres. Comrs., Thomas Ringwood.....Ilion
Sec., George R. Russell..... "
Treas., F. Joerissen..... "
Clerk, G. O. Rashach..... "

Springs & impounding reservoirs, 81,000,000 gal.; 6 mi. from center business section; slow sand filters, 1,250,000 gal.; chemicals, none.

Gravity distribution from reservoirs, 500,000 gal.; pipe, 18 mi. 4 to 12-in. c. i.; hyd. 171, hose con. 2½-in. Ludlow; valves 215 r. h. thd. Eddy; meters, 40; av. daily cons. 900,000 gal.; serv. con. 2190; ord. pres. 80 to 100 lb., fire pres. 100 to 140 lb.

Rates: flat, $5 year, closet $3, bath $3. meter, min. charge $17 100,000 gal., 5c; 1000 gal.

IRVINGTON, 2,319.

MUNICIPAL.

Supt., Wm. H. Winne.....Irvington

Springs & impounding reservoirs, 2-72,000,000 gal.; ¼ mi. from center distribution; chemical, copper sulphate.

Boilers, 2 50 & 100-hp. Erie; hand stoking; pumps, 1,000,000 gal.; pumping direct & to reservoirs, above.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 300, hose con. 2½-in. R. D. W.; valves, 150 r. & l. h. thd. R. D. W. & Ludlow; meters, 400 National; av. daily cons. 150,000 gal.; serv. con. 400; ord. pres. 140 lb., fire pres. 150 to 160 lb.

ITHACA, 14,802.

SUPPLIED BY TRI-CITIES WATER CO. See Charleroi, Pa.

JAMAICA.

JAMAICA WATER SUPPLY CO. Office, Fulton St., Jamaica.

Supplies Floral Park, Hyde Park & part of Queens.

Pres., Warren Leslie.....Jamaica
V. Pres., B. J. Kelly..... "
Sec., G. J. Leslie..... "
Treas., H. L. Norton..... "
Ch. Engr., Charles Lockwood ..... "

JAMESTOWN, 31,297.

MUNICIPAL.

Mayor, Samuel A. Carlson.....Jamestown

Comrs., Frank O. Anderson.....Jamestown
" Arthur H. Greenlund.... "
" Walter I. Blystone..... "
Comr., Arthur K. Briggs..... "
Supt., Lyman P. Hapgood..... "
Engr. P'g. Sta., Wm. H. Hancock "

Wells, 15 artesian 8-in. 95 ft. deep; 4 mi. from center distribution.

Boilers, 4 hor. return tubular 150-hp. ea. McEwen; hand & mechanical stoking; Jones; pumps, 6-326,000,000 gal. Holly, Allis-C. & Epping-Carpenter; pumping to reservoir, 5,000,000 gal.

Pipe, 68.5 mi. 4 to 24-in. c. i.; hyd. 509, hose con. 2½-in. Ludlow; valves, 900 r. h. opening Ludlow & Pratt & Cady; meters, 7500 Hersey, Neptune, Thomson & National; av. daily cons. 2,750,000 gal.; serv. con. 8500; ord. pres. 50 to 140 lb., fire pres. same.

Rates; meter, min. charge $1.50 quarter, 15c. 100 cu. ft.

JEFFERSONVILLE, 400.

MUNICIPAL.

Pres., Jno. H. Flassel.....Jeffersonville
Treas., Wm. Bollenbach..... "
Sec., Wm. Leib..... "
Clerk, Supt. & Engr. P'g. Sta.,
Fred. W. Schadt..... "
Des. Engr., Jos. B. Rider..... "

Spring & brook; 1¾ mi. from center distribution; no purification.

Gravity distribution, 3,000,000 gal.; pipe, 3 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Eddy; valves, 32 l. h. opening Eddy; meters, none; av. daily cons. 20,000 gal.; serv. con. 90; ord. pres. 20 to 40 lb., fire pres. 65 to 85 lb.

Rates: flat, $4 year, bath $2, closets, $2.

KENMORE, 1,020.

MUNICIPAL.

Vil. Pres., M. B. Young.....Kenmore

Buy water from the Western New York Water Co. See Buffalo.

KINGSTON, 25,908.

MUNICIPAL.

City Pres., James F. Dwyer.....Kingston
Cashier & Asst. Sec.,
A. B. Abernathy..... "
Supt., J. H. Harrison..... "
Chemist, James M. Caird,
271 River St., Troy, N. Y.

Mountain streams & impounding reservoir, 600,000,000 gal.; 8 to 10 mi. from center distribution; mechanical filters, 6,000,000 gal.; chemical, hypochlorite of lime & sulphate of alumina.

Gravity distribution from reservoir, 105,000,000 gal.

Hyd. 494, hose con. 2½-in. Coffin & Rensselaer; valves, r. h. opening Rensselaer & Coffin; meters, 125 Neptune & Pittsburgh; av. daily cons. 3,750,000 gal.; serv. con. 5475; ord. pres. 40 to 105 lb., fire pres. same.

LAKE PLACID, 1,682.

MUNICIPAL.

Supt., John McGuckin.....Lake Placid

LE ROY, 3,771.

MUNICIPAL.

Supt., F. W. Becker.....Le Roy

LIBERTY, 2,072.

MUNICIPAL.

Pres. Comrs., Isham Young.....Liberty
Comr., Byron Grant..... "
" Wm. George..... "
Vil. Clerk & Supt., Robert Harby.. "
Cons. Engr., H. W. Taylor.....Albany
Engr. P'g. Sta., Ed. Lewis.....Liberty
Chemists, Nelson & Lauder....Binghamton

Revonah Lake; 2 mi. from center business section; no purification.

Boiler, one 50-hp. Beggs; hand stoking; pumps, 2 Worthington; pumping to reservoirs, 2-4,000,000 gal.

Hyd. 63, hose con. 2½-in. R. D. W.; valves, r. & l. h. opening; meters, 400; av. daily cons. 150,000 gal.; serv. con. 500; ord. pres. 30 to 120 lb., fire pres. 50 to 130 lb.

Rates: flat, $6 year, bath $2, closet $2; meter, min. charge $9 year 30,000 gal., 30c. 1000 gal.

LITTLE FALLS, 12,273.

MUNICIPAL.

Pres. Comrs., J. E. Stacey.....Little Falls
City Clerk, Mathew Leahy..... " "
City Engr., O. J. Dempster..... " "
Cons. Engr., Robert E. Horton.....Albany

Impounding reservoirs, 2-1,000,000 gal.; 11 mi. from center business section; no purification; gravity distribution.

Pipe, 20 mi. 3 to 14-in. c. i.; hyd. 136; valves, 450 l. h. opening Ludlow; meters, 331; av. daily cons. 300,000 gal. 14%; serv. con. 2146; ord. pres. 40 to 130 lb., fire pres. same.

Rates: flat, $3 year, bath $2.50, closet $2; meter, 16c. 100 cu. ft. max., 2.5 c. min.

LITTLE VALLEY, 1,368.

MUNICIPAL.

Pres., J. L. Reed.....Little Valley
Sec., J. B. Brown..... " "
Comr., W. C. Parker..... " "
Engr. P'g. Sta., G. S. Boller... " "

Springs & well, 8-in. 76 ft. deep.

Pump, centrifugal driven by elec. motor; pumping direct & to reservoir, 11 x 56 ft.

Hyd. 29, hose con. 3-in. Ludlow; serv. con. 300; ord. pres. 60 to 75 lb., fire pres. 60 to 80 lb.

Rates: flat, $5 year.

LIVONIA, 823.

MUNICIPAL.

Chmn. Comrs., M. E. Coykendell...Livonia
Comr., F. A. Atkins..... "
" E. B. Barber..... "
Sec., K. A. Bronson..... "

Wells, 3 tubular 6-in. 120 to 180 ft. deep; near center business section; reservoir, 200,000 gal.

Pumps, 1-120,000 gal. hor. duplex Rumsey d. con. to elec. motors, 3 & 7.5-hp. 220 v. 3 ph. 25 cys. G. E.; elec. energy from Livonia Light & Heat Co.; pumping to reservoir.

Pipe, 5 mi. 4 to 10-in.; meters, 200 Buffalo; ord. pres. 60 to 125 lb. fire pres. same.

Rates; meter, 25c. 1000 gal. max., 20c. min.

LOCKE, 500.

MUNICIPAL. Owned by the Water district of Locke.

Chm. Comrs., A. L. Mott.....Locke
Comr., O. D. Huitt..... "
" E. G. Masters..... "
Cons. Engr., Chas. A. Bowman....Syracuse

Springs & reservoirs, 500,000 gal.; one mi. from center business section; gravity distribution.

Pipe, 2 mi. 4 & 8-in. c. i.; hyd. 13, hose con. 2½-in. R. D. W.; valves, 12 l. h. opening R. D. W.; av. daily cons. 25,000 ord. pres. 80 to 90 lb.

Rates; flat, $7.50 year, bath $4, closet $4.

LOCKPORT, 17,970.

MUNICIPAL.

Pres. Comrs., Joseph Dunnille....Lockport
Comr., L. G. Merritt..... "
" H. W. Dale..... "
Supt., Fred S. White..... "
Des. Engr., J. F. Frehsee..... "
Ch. Engr. P'g. Sta.,
Richard H. Murray..... "

Niagara River & wells, 28 ft. in diam. 30 ft. deep; ¼ mi. from center distribution; chemical, liquid chlorine.

Pumps, 3-7,200,000 gal. Worth.; elec. motors, 500-hp. 440 v. 3 ph. 25 cys. Westg.; elec. energy from Tonawanda Power Co.; pumping direct & to standpipe (1909) steel.

Pipe, 38 mi. 4 to 30-in. c. i. & steel; hyd. 525, hose con. 2½-in. Holly, Ludlow & McKim; valves, 585 r. h. thd. Ludlow; meters, 2000 Hersey, Thomson & Pittsburgh; av. daily cons. 400,000 gal.; ord. pres. 85 to 90 lb., fire pres. 90 to 180 lb.

Rates: flat, $4 year, bath $2, closet $4; meter, min. charge $5 year, 10c. 1000 gal. max., 3c. min.

LONG BEACH, *3,000.

LONG BEACH WATER CO. Office, 47 W. 34th St., New York, N. Y.

Pres., S. M. Bard.....New York
V. Pres., H. McCormack. West Chester, Pa.
Sec., J. E. Humbert.....New York
Treas., A. F. Hoffsommer, Harrisburg, Pa.
Gen. Mgr. & Pur. Agt.,
L. W. F. Carstein.....Long Beach

Wells, 11 ft. in diam. 80 ft. deep; 5 mi. from center business section; reservoir, 2,000,000 gal.; no purification.

Boiler, Scotch marine 50-hp. 70 lb. 1912; pumps, 1-300,000 gal. hor. duplex Worth. 1912, 1-400,000 gal. hor. duplex Worth. 1912, 2-1,800,000 gal. vert. centrifugal Worth. 1910 driven by elec. motors, 2 100-hp. 2080 v. 3 ph. 60 cys. G. E. 1910; elec. energy from Queens Borough Gas & Elec. Co.; pumping to standpipe (1910) 1,000,000 gal.

Pipe, 16 mi. 4 to 24-in. c. i.; hyd. 200, hose con. 2½-in. Rensselaer; valves, 180 l. h. opening Rensselaer; meters, 15 various; av. daily cons. 300,000 gal.; serv. con. 200; ord. pres. 30 to 50 lb., fire pres. same.

Rates: meter, 18c. 100 cu. ft. max., 15c. min.

LONG ISLAND CITY.

SUPPLIED BY THE CITY OF NEW YORK WATERWORKS & ALSO BY THE CITIZENS WATER SUPPLY CO. See Elmhurst.

LOWVILLE, 2,940.

MUNICIPAL.

City Pres., McGovern.....Lowville
Sec., L. S. Miller..... "
Supt., D. E. Jones..... "

Springs; 10 mi. from center distribution; no purification.

Gravity distribution from reservoir, 2,090,000 gal.

Pipe, 22 mi. 4 to 12-in. c. i.; hyd. 110, hose con. 2½-in. Michigan, R. D. W., Ludlow & Eddy; valves, r. h. thd. Eddy; meters, 806 various; serv. con. 849; ord. pres. 60 to 160 lb., fire pres. same.

Rates: meter, min. charge $2.50 6-mo. 1200 cu. ft., $2 1000 cu. ft. max., 50c. min.

LUZERNE, 868.

THE GAMAR WATER CO.

Pres., W. T. Gamar.....Luzerne
Treas. & Gen. Mgr., E. M. Gamar, Jr. "

Springs; 3 mi. from center business section; gravity distribution.

Pipe, 4 mi. 2 to 10-in.; valves, 9; serv. con. 200; ord. pres. 130 lb.

Rates; flat, $7 year, bath $3, closet $4.

MADISON, 309.

MUNICIPAL.

Vil. Pres., Fred Welch.....Madison
Clerk, F. C. Curtis..... "

Springs; ½ mi. from center distribution; pumps, 1-86,400 gal. Rumsey driven by gasoline engine, 9-hp. F. M.; pumping to standpipe (1914) steel.

Pipe, 2.5 mi. 4 to 8-in. c. i.; hyd. 15, hose con. 3-in. Eureka; serv. con. 94; ord. pres. 70 lb., fire pres. same.

MALONE, 6,467.

MUNICIPAL.

Vil. Pres., H. D. Mayne.....Malone
Supt., Geo. A. Willson..... "

Springs: 7 mi. from center distribution; no purification.

Gravity distribution from reservoir, 1,500,000 gal.

Pipe, 36 mi. 4 to 12-in. c. i.; hyd. 101, hose con. 2½-in. R. D. W.; valves, 417 r. h. thd. Eddy; av. daily cons. 1,000,000 gal.; serv. con. 1610; ord. pres. 20 to 138 lb., fire pres. same.

Rates: flat, $6 year, bath $2, closet $3 year.

MAMARONECK, 5,699.

SUPPLIED BY THE NEW YORK-INTERURBAN WATER CO. See Mount Vernon.

MANHASSET, 700.

MANHASSET & LAKEVILLE WATER CO.
Sec., J. M. Belknap.....Manhasset

Artesian wells; pumps, 3 triplex driven by oil engines, 3 20-hp. De La Vergne; pumping to elev. tank, 120,000 gal.

MANLIUS, 1,314.

MUNICIPAL.
Chmn. Comrs., C. E. Tuttle.....Manlius
Comr., B. W. Sutherland..... "
" W. W. Cheney..... "
Sec., E. D. Smith..... "
Supt., M. E. Brown..... "

Springs & impounding reservoir; 2 mi. from center business section; no purification.

Gravity distribution; pipe, 2 mi. 6-in. c. i.; hyd. 25; meter, 150 Pittsburgh; ord. pres. 75 to 115 lb.

Rates; meter, min. charge $1 quarter, 20c. 100 cu. ft. max., 5 min.

MARCELLUS, 917.

MUNICIPAL.
Sec., Chas. Jones.....Marcellus
Supt., M. Powell..... "
Comr., Chas. J. Bowman.....Syracuse

Springs & reservoir, 2,000,000 gal.; 2.25 mi. from center business section; gravity distribution.

Pipe, 4.5 mi. 4 to 10-in. c. i.; hyd. 34, hose con. 2½-in. Ludlow; valves, 20 l. h. opening; av. daily cons. 50,000 gal.; ord. pres. 80 to 115 lb., fire pres. 80 to 126 lb.

Rates: flat, $5 year, bath $4, closet $5; meter, 14c. 100 cu. ft. max., 3.5c. min.

MARLBORO, 920.

MUNICIPAL.
Vil. Pres., C. Eckerson.....Marlboro

Springs; 2 mi. from center distribution; gravity distribution; hyd. 35; serv. con. 150; ord. pres. 70 to 120 lb.

MASSENA, 2,951.

ST. LAWRENCE WATER CO. Office, Potsdam, N. Y.
Treas., F. A. Stoughton.....Potsdam
Supt., T. M. Richards.....Massena

Buy water from St. Lawrence River Power Company; St. Lawrence River, 1.25 mi. from center business section; mech. filters, 2 Scaife.

Distribution from standpipe; hyd. 60· hose con. 2½-in.; meters, 10 various; av. daily cons. 30,000 gal.; ord. pres. 50 to 75 lb., fire pres. 90 to 110 lb.

MAYVILLE, 1,122.

MUNICIPAL.
Vil. Pres., W. S. Patterson..... Mayville

MECHANICSVILLE, 6,634.

MUNICIPAL.
Supt., Morris O'Brien.....Mechanicsville

Springs; 4 mi. from center distribution; impounding reservoirs, 9,000,000 gal.; settling basins, 4,000,000 gal.; slow sand filters, 2,000,000 gal.; chemicals, none.

Boiler, hor. 1000-hp.; hand stoking; pumps, 2-3,000,000 gal. Worth.

Pipe, 8 mi. 4 to 12-in c. i.; hyd. 96, hose con. 2½-in. Eddy; valves, 180 l. h. thd. Rensselaer; meters, 1100 Neptune, Thomson & National; av. daily cons. 1,500,000 gal.; serv. con. 1100; ord. pres. 70 lb., fire pres. same.

Rates: meter, 20c. 1000 gal. max., 8c. min.

MENDOTA, 3,806.

MUNICIPAL.
Supt., G. T. Price.....Mendota

Wells, 2 tubular 7-in. 400 & 480 ft. deep.

MERRICK, 275.

HEMPSTEAD & OYSTER BAY WATER CO.
Pres., Joseph W. Birch.....Merrick
Sec., Alvin G. Smith..... "
Treas., Geo. M. Hewlett..... "
Supt., A. S. Malcomson.....Freeport
Cons. Engrs.,
Smith & Malcomson, Inc. " "

Wells, open & tubular 3 to 12-in. 30 ft. deep; at center of distribution.

Pumps, 1-144,000 gal. Goulds, 1-360,000 gal. Goulds belted to gasoline engines. 2 6 & 15-hp. Otto & Foos; pumping to air pressure tank (1914) 15,000 gal. steel & elev. tank, 15,000 gal. wood.

Pipe, 6 mi. 4 to 12-in. c. i; hyd. 43, hose con. 2½-in. Eddy; valves, 25 r. h. thd. Eddy; meters, 50; av. daily cons. 25,000 gal.; serv. con. 100; ord. pres. 30 lb., fire pres. 100 lb.

Rates: flat, $14 year; meter, min. charge $20 year, 20c. 1000 gal.

MEXICO, 1,233.

MUNICIPAL.
Chmn. Comrs., W. J. Colins.....Mexico
Comr., E. E. Hollister..... "
" W. C. Grass..... "
Sec., B. T. Johnson..... "
Supt., A. W. Richardson..... "

Springs; 3 mi. from center distribution; mech. filters, 2-288,000 gal. ea.; pumps, 2-288,000 gal. triplex Rumsey 1904 chain driven by from elec. motors, 2 Westg. 1914; elec. energy from Mexico Elec. Co.; pumping to standpipe (1914) 60 x 16 ft.

Pipe, 9 mi. 4 to 10-in. c. i.; hyd. 76, hose con. 2½-in. R. D. W.; meters, Buffalo.

Rates: meter, min. charge $1.50 quarter, 40c. 1000 gal. max., 8c. min.

MIDDLEPORT, 1,530.
MUNICIPAL.
Vil. Pres., R. L. Wheeler.....Middleport
Comr., Truman Jennings..... "
" Geo. Helenbolt..... "
Sec., E. A. McDonald..... "
Engr. P'g. Sta., Fred Wilcox.... "
Springs & reservoir, 350,000 gal.; 2.5 mi. from center business section; no purification.
Pumps, 1-800,000 gal. hor. centrifugal Jeanesville 1912 d. con. to elec. motor, 40-hp. 220 v. 3 ph. 25 cys. Westg. 1912, 1-300,000 gal. hor. centrifugal Jeanesville 1912 d. con. to elec. motor, 15-hp. 220 v. 3 ph. 25 cys. Westg. 1912; elec. energy from Middleport Gas & Elec. Lt. Co.; pumping to standpipe (1912) 75,000 gal.
Pipe, 8.5 mi. 4 to 10-in. c. i.; hyd. 65, hose con. 2½-in. Ludlow; valves, 65 r. h. opening Ludlow; meters, 210 Buffalo; av. daily cons. 30,000 gal. 96%; serv. con. 215; ord. pres. 70 to 74 lb., fire pres. same.
Rates: meter, min. charge $2 quarter 5000 gal., 40c. 1000 gal. max., 15c. min.

MIDDLETOWN, 15,313.
MUNICIPAL.
Comr., J. C. Begman.....Middletown

MILFORD, 511.
MUNICIPAL.
Pres., O. A. Weatherby.....Milford
Comr., John Wilcox..... "
" Chas. E. Colburn..... "
Sec., H. J. Deanes..... "
Lakes; settling basins, 2; gravity distribution.
Pipe, 4 mi. 6-in. c. i.; hyd. 35, hose con. 3-in.; ord. pres. 85 lb., fire pres. same.
Rates: flat, $12 year including bath & closet.

MILLERTON, 858.
MUNICIPAL.
Supt., C. F. Hawley.....Millerton
Engr. P'g. Sta., R. B. Carter..... "
Springs & wells, tubular; ½ mi. from center distribution.
Boiler, one locomotive; hand stoking; pumps, 2-720,000 gal. Goulds & Deming driven by elec. motor, one 20-hp. G. E., one 30-hp. Crocker-Wheeler; pumping direct & to reservoir, 1,000,000 gal.
Hyd., hose 3-in. Eddy; meters, 12 Thomson & National; serv. con. 205; ord. pres. 100 to 120 lb.
Rates: meter, 30c. 1000 gal.

MINEOLA, 1,989.
MUNICIPAL.
Pres. Trustees, Frank E. Krug.....Mineola
Vil. Clerk, J. F. Buhler..... "
Supt., Frank Shill..... "
Wells, 2 artesian 12-in. 91 ft. deep; ¾ mi. from center business section; reservoir, 100,000 gal.; no purification.
Pumps, 1-500,000 gal. vert. triplex Platt 1907, d. con. to gas engine, 1-450,000 gal. vert. triplex Goulds 1910 d. con. to gas engines, 2 25-hp. Alamo 1907 & National 1910; pumping to elev. tank (1907) 100,000 gal. steel, Phila. Iron Wks.
Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 100, hose con. 2½-in. Eddy & Pratt & Cady; valves, l. h. opening Pratt & Cady; av. daily cons. 300,000 gal. 75%; serv. con. 425; ord. pres. 70 to 75 lb., fire pres. same.
Rates: flat, $14 year; meter, min. charge $8 year, 20c. 1000 gal. max., 15c. min.

MOHAWK, 2,079.
MUNICIPAL.
Comr., W. A. Rockefeller.....Mohawk
" Chas. Young..... "
" W. M. Lamb..... "
" O. E. Day..... "
Supt., F. D. DuBois..... "
Springs & wells, 12 ft. in diam. 15 ft. deep; ¼ mi. from center distribution; no purification.
Boiler, tubular 80-hp. Utica; hand stoking; pumps, 2-1,750,000 gal. Rumsey, Deane & Gordon; elec. motors, 48 kw. 220 v. 3. ph. 60 cys. G. E.; pumping to standpipe (1890) 70,000 gal. steel & concrete.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 57, hose con. 2½-in. Galvin & Ludlow; valves, 60 l. h. thd. Ludlow; meters, 200 National, Neptune & Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 600; ord. pres. 65 to 85 lb., fire pres. 55 to 95 lb.
Rates: flat, $5 year, bath $3, closet $3; meter, 30c. 1000 gal. max., 6c. min.

MONROE, 1,195.
MUNICIPAL.
Comr., W. F. Griffin.....Monroe
" Fred Hulse..... "
" W. S. Hall..... "
" T. L. Rogers..... "
" G. W. Brooks..... "
Supt., C. S. Knight..... "
Lake; 3 mi. from center distribution; no purification.
Gravity distribution; pipe, 10 mi. 4 to 12-in. c. i.; hyd. 70, hose con. 2½-in.; meters, none; ord. pres. 85 to 106 lb.
Rates: flat, $5 year, bath $2, closet $2.

MONTOUR FALLS, 1,208.
MUNICIPAL.
Pres., J. T. McKeg.....Montour Falls
Clerk, S. J. Crofut..... " "
Cramer Creek; 2 mi. from center business section; reservoir, 10,500 gal.; gravity distribution.
Pipe, 6.4 mi. 6 & 8-in. c. i.; hyd. 46; ord. pres. 80 to 120 lb., fire pres. same.
Rates: flat, $2.50 quarter including bath & closet.

MORAVIA, 1,324.
MUNICIPAL.
Vil. Pres., L. M. Wheat.....Moravia
Trustee, Oscar Tifft..... "
" Wm. Tuthill..... "

Trustee, Frank J. Patten.....Moravia
" Mortimer Sayer..... "
Supt., S. H. Steele..... "
Springs & wells, 6-in.; no purification.
Boiler, hor. tubular 35-hp. Oswego; pump, duplex Buffalo; pumping to reservoir, 603,000 gal.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 3-in.; valves, l. h opening; meters, none; serv. con. 300; ord. pres. 75 to 80 lb. fire pres. same.

MORRIS, 600.
MUNICIPAL.
Vil. Pres., & Supt., B. D. Philips....Morris
Trustee, R. R. Ripley..... "
" Alvin Gifford..... "
Springs & creek; 2 mi. from center distribution; slow sand filter, 200,000 gal.; aerators, 7; chemicals, none.
Gravity distribution from impounding reservoir, 4,000,000 gal.; serv. con. 400; ord. pres. 25 lb., fire pres. same.
Rates: flat, $4 year, closet $3.

MORRISVILLE, 500.
MUNICIPAL.
Pres. Trustees, A. S. Devitt.....Morrisville
Trustee, C. H. Williams..... "
" M. E. Rich..... "
Sec., H. B. Wood..... "
Supt., J. H. Parker..... "
Springs & impounding reservoir; no purification; gravity distribution.
Pipe, 2 mi. 4 & 8-in. c. i.; hyd. 29, hose con. 2½-in. Roe-Stephens; valves, 16 l. h. opening; meters, 89 National; serv. con. 165; ord. pres. 75 to 100 lb., fire pres. same.
Rates: flat, $5 year, bath $3, closet $2; meter, 25c. 100 cu. ft. max., 10c. min.

MT. KISCO, 2,802.
MUNICIPAL.
Supt., G. E. Ganum.....Mt. Kisco
Kisco Brook & springs; 3.5 mi from center business section; no purification.
Pumps driven by elec. motors, 2 220 v. a. c. 60 cys.; pumping to reservoirs.
Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 76, hose con. 2½-in. Ludlow; valves, l. h. opening Ludlow; meters, 550 Thomson, Neptune & Pittsburgh; serv. con. 550; ord. pres. 70 to 110 lb., fire pres. same.

MT. VERNON, 30,919.
NEW YORK INTERURBAN WATER CO. (Controlled by American Pipe & Construction Co., 100 Broad St., Philadelphia, Pa. Officers as follows.)
Pres., Jos. S. Keen, Jr.....Phila., Pa.
V. Pres. & Treas.,
Geo. M. Bunting..... "
Asst. Treas. & Sec., H. B. Hodge "
Gen. Supt., H. P. Keen..... "
Supt., H. E. Wolbert.....Mount Vernon
Mamaroneck River, Hutchinson River & Tom Paine Brook; 1 to 9 mi. from center distribution; impounding reservoir, 120,000,000 gal.; settling basins, 520,000 gal.; slow sand filters, 5,000,000 gal.; mechanical filters, 2,000,000 gal.; chemicals, hypochlorite of lime & sulphate of Alumina.
Boilers, 3 return tubular 80-hp. ea. Wetherill, 2 return tubular 125-hp. ea. Allen; hand stoking; pumps, 2-3,250,000 gal. Wetherill, 1-4,000,000 gal. Worth., 1-3,000,000 gal. Deane; pumping to standpipe, steel.
Pipe, 84 mi. 4 to 30-in. c. i.; hyd. 739, hose con. 2½-in. Eddy, Ludlow & Smith; valves, 1088 l. h. thd. Ludlow; meters, 5300 National, Neptune & Thomson; av. daily cons. 2,000,000 gal.; serv. con. 5300; ord. pres. 30 to 100 lb., fire pres. same.
Rates: meter, 30c. 100 cu. ft. max., 10c. min.

NEW HARTFORD, 1,195.
SUPPLIED BY THE CONSOLIDATED WATER COMPANY OF UTICA, N. Y.

NEW PALTZ, 1,230.
MUNICIPAL.
Pres. Comrs., H. G. Gregory....New Paltz
Comr. & Supt., Wm. Bleecker... " "
" E. C. Elmore..... " "
" Howard Crispell..... " "
" E. Schoonmaker..... " "
Cons. Engr., H. Lester Newhall,
1790 Walton Ave., New York
Impounding reservoirs, 3-3,546,000 gal.; 2.75 mi. from center distribution; no purification.
Gravity distribution from reservoir, above.
Pipe, 4.27 mi. 4 to 12-in. c. i.; hyd. 43, hose con. 2½-in. Chapman; valves, 38 r. h. thd.; meters, none; av. daily cons. 120,000 gal.; serv. con. 188; ord. pres. 30 to 200 lb., fire pres. same.
Rates: flat, $10 year; meter, min. charge $12 year 4000 cu. ft., 35c. 100 cu. ft.

NEW ROCHELLE, 28,867.
THE NEW ROCHELLE WATER CO.
Pres., C. O'D. Iselin.....New York City
Treas., A. Iselin, Jr..... " " "
Supt., F. T. Kemble.....New Rochelle
Engr. P'g. Sta.,
J. G. Deveau..... " "
Impounding reservoirs, 3 & wells, 80 tubular; chemical, hypochlorite of lime.
Boilers, 6; mechanical stoking, Jones; pumps, 1-3,500,000 gal. steam Worth., 1-3,000,000 gal. steam. Worth., 1-2,000,000 gal. steam Worth., 1-4,000,000 gal. elec. driven Watson-Stillman, 1-100,000 gal. elec. driven Watson-Stillman; pumping to standpipe.
Pipe, 145 mi. 4 to 30-in.; hyd. 890; av. daily cons. 3,000,000 gal.; serv. con. 7000.
Rates: all meter, min. charge $9 year 4000 cu. ft., 22½c. 100 cu. ft. max., 15c. min.

NEW YORK, 4,766,883.
MUNICIPAL. Department of Water Supply, Gas & Electricity, in charge of

maintenance of existing works supplying the boroughs of Bronx, Brooklyn, Manhattan, Richmond & Queens. See also Brooklyn, Queens & Richmond.
Comr., Wm. Williams.....New York
Ch. Engr., Merritt H. Smith.... " "

Board of Water Supply, in charge of the Catskill project:
Pres. Comrs., Chas. Strauss.....New York
Comr., Chas. N. Chadwick..... " "
" Jno. S. Galvin..... " "
Sec., W. Bruce Todd..... " "
Ch. Engr., J. Waldo Smith..... " "
Cons. Engr., Jno. R. Freeman,
235 Arlington Ave., Providence, R. I.
Cons. Engr., Prof. Wm. H. Burr,
Columbia University, N. Y.

Impounding reservoirs on Croton, Bronx & Byram Rivers, 16-110,469,000,000 gal.; about 50 mi. from center financial district; no purification.

98th St. Sta.: boilers, 2 marine 140-hp. 155 lb. Morris; pumps, 2-18,000,000 gal. ea. hor. tri. exp. d. act. Worth. 1910; boilers, 2 water-tube 214-hp. 155 lb. Sterling; pumps, 1-10,000,000 gal. hor. comp. d. act. Worth. 1891. 179th St. Sta.: boilers, 4 water-tube 285-hp. 165 lb. Oil City, one return tubular 150-hp. 160 lb.; pumps, 2-4,000,000 gal. ea. vert. tri. exp. Corliss-Blake 1897, 2-10,000,000 gal. ea. vert. tri. exp. Blake 1897, 2-15,000,000 gal. ea. vert. tri. exp. Worth. 1903; High Bridge Sta.: boiler, return tubular 100-hp. 90 lb. Delamater; pumps, 1-5,000,000 gal. hor. comp. d. act. Worth. 1883. Jerome Ave. Sta.: boilers, 3 marine 140-hp. ea. 155 lb. Morris, 2 water-tube 125-hp. 155 lb. Heine, one water-tube 353-hp. 155 lb. B. & W.; pumps, 2-10,000,000 gal. ea. tri. exp. d. act. Worth. 1895, 2-12,500,000 gal. ea. centrifugal Westg. 1911 driven by steam turbines, De Laval. Gansevoort St. Sta.: pumps, 5-4,400,000 gal. centrifugal Allis-C. 1907 driven by elec. motor, 6600 v. 3 ph. 25 cys. Allis-C., 1-4,400,000 gal. centrifugal Allis-C. 1911, driven by elec. motors, 665 kw. 6600 v. 3 ph. 25 cys. Allis-C. South St. Sta.: pumps, 5-4,400,000 gal. centrifugal Allis-C. 1907 driven by elec. motor, 665, kw. 6600 v. 3 ph. cys. Allis-C., 1-4,400,000 gal. centrifugal Allis-C. 1911 driven by elec. motor, 665 kw. 6600 v. 3 ph. 25 cys. Allis-C.

Pipe, 1,334 mi. 4 to 16-in.; hyd. 20,011; valves, 27,310; av. daily cons. 314,000,000 gal.

High pressure service for Manhattan & Brooklyn.

Pumps, 12-51,840,000 gal., 8-34,560,000 gal., 3-6,480,000 gal. all driven by elec. motors; elec. energy from New York Edison Co.

Pipe, 153 mi. 8 to 24-in.; hyd. 3622; valves, 5991; pres. 300 lb.

AMERICAN WATER WORKS AND ELECTRIC COMPANY, INCORPORATED. Office, 50 Broad St., New York.
Pres., H. Hobart Porter.....New York
V. Pres., Stuart H. Patterson....New York
Sec., Harry E. Towle..... " "
Supt., A. M. Lynn..... " "
Supt., G. E. Hoffmaster..... " "
Ch. Engr., G. W. Biggs..... " "
Pur. Agt., H. F. Barnard..... " "

Owns or controls the following water companies: Arkansaw Water Co., supplies Little Rock, Argenta & Pulaski Heights, Ark.; Belleville Water Supply Co., supplies Belleville, Ill.; Birmingham Water Works Co., supplies Birmingham, Ala., and suburbs; Butler Water Co., supplies Butler, Pa.; City of New Castle Water Co., supplies New Castle, Pa.; City Water Co. of Chattanooga, Tenn., supplies Chattanooga and suburbs; City Water Co. of East St. Louis & Granite City, Ill., supplies East St. Louis, Granite City, Madison & Venice; Conneesville Water Co., supplies Conneesville, Pa.; Monongahela Valley Water Co., supplies Elizabeth, West Elizabeth, Port Vue, Clairton, Wilson, Glassport, Dravosburg, McKeesport (10th ward), Lincoln Township, Mifflin Township & Jefferson Township, Pa., Muncie Water Works Co., supplies Muncie, Ind.; Portsmouth, Berkeley & Suffolk Water Co., supplies Portsmouth, Norfolk (Berkeley ward), Suffolk and part of Norfolk County, Va.; Racine Water Co., supplies Racine, Wis.; St. Joseph Water Co., supplies St. Joseph, Mo.; South Pittsburgh Water Co., supplies Mount Oliver Sta., Carnegie, Crafton, Esplen, Greentree, Hays, Heidelberg, Ingram, Knoxville, Marshallsea, Montooth, Sheriden, West Homestead & West Liberty, Pa.; Warren Water Co., supplies Warren, Pa.

United Water & Light Co., controlled by American Water Works & Electric Company, holds the following: City Water Co., Marinette, Wis., supplies Marinette; City Water Co., Merrill, Wis., supplies Merrill; Clinton Water Works Co., supplies Clinton, Ia.; Guyandotte Water Works Co., supplies Guyandotte, W. Va., with water from Huntington Water Co. which supplies Huntington, W. Va.; Joplin Water Works Co., supplies Joplin, Mo., and suburbs; Keokuk Water Works Co., supplies Keokuk, Ia.; Kokomo Water Works Co., supplies Kokomo, Ind.; Louisiana Water Co., supplies Louisiana, Mo.; Mount Vernon Water Works Co., supplies Mount Vernon, Ind.; Shreveport Water Works Co., supplies Shreveport, La., and suburbs.

AMERICAN PUBLIC SERVICE COMPANY. Office, 49 Wall St., New York.
Pres., S. H. Powell.....New York
V. Pres., A. C. Smith, Jr..... " "
Treas., S. W. Baldwin..... " "
Sec., E. W. Niver..... " "
Asst. Sec., E. E. Caffall..... " "
Gen. Mgr., A. V. Wainwright, Abilene, Tex.

This company has acquired the entire capital stock and outlying bonds of the Abilene Light & Water Co., Abilene, Texas.

CENTRAL ARKANSAS RY. & LIGHT CORP. Office, 60 Broadway, New York.
Pres., E. N. Sanderson.....New York
V. Pres. & Treas., L. C. Gerry.... " "
Sec., J. Dunhill..... " "
Controls Hot Springs Water Co., supplies Hot Springs, Ark.

CITIES SERVICE COMPANY. Office, 60 Wall St., New York.
Pres., Henry L. Doherty.....New York
V. Pres., Frank W. Frueauff..... " "
2d V. Pres., Chas. T. Brown..... " "
Sec., Paul R. Jones..... " "
Treas., Louis F. Musil..... " "
Controls the City Light & Water Co., Amarillo, Tex., supplies Amarillo.

COMMONWEALTH POWER RAILWAY & LIGHT COMPANY. Office, 188 Middle St., Portland, Me., & 14 Wall St., New York.
Pres., Anton G. Hodenpyl.....New York
V. Pres., C. M. Clark.....Philadelphia
V. Pres., Geo. E. Hardy .....New York
Treas. & Asst. Sec., Jacob Hekma " "
Sec., C. A. Pearson, Jr.....Philadelphia
Controls Cadillac Water & Light Co., supplies Cadillac, Mich.; Grand Rapids Edison Company, supplies Lowell, Mich.

INTERSTATE ELECTRIC CORPORATION. Office, 115 Broadway, New York.
Pres., A. H. Soden,
Commerical Nat'l. Bank, Boston, Mass.
V. Pres., A. E. Fitken.....New York
" " R. W. Baker..... " "
Treas. & Sec., W. C. Harty.....Boston.
Op. Engrs., Roosevelt & Thompson,
71 B'way, New York
Owns all of the stock of the following water companies: Great Bend Water & Electric Co., Great Bend, Kans.; San Angelo Water Light & Power Co., San Angelo, Tex.; Laredo Water Co., Laredo, Texas.

NATIONAL PROPERTIES CO. Office, 15 Wall St., New York.
Pres., Van Horn Ely.....New York
V. Pres., A. C. Robinson...Pittsburgh, Pa.
Sec. & Treas., A. H. Newburger. New York
Controls the Water Co. of Tonapah, supplies Tonapah, Nev.

UNITED RAILWAYS INVESTMENT CO. Office, 25 Broad St., New York.
Pres., Mason B. Starring.....New York
V. Pres., Geo. W. Bacon..... " "
" " Sidney H. March..... " "
Treas., B. S. Guinness..... " "
Sec., W. J. Duane..... " "
Asst. Sec., M. V. R. Weyant.... " "
Auditor, P. M. Hawkins..... " "
Controls the California Railway & Power Co. which controls the Coast Valleys Gas & Electric Co., supplies Salinas & King City, Cal., and Sierra & San Francisco Power Co., supplies Sonora, Tuolumne & Jamestown, Cal.

NEW YORK MILLS, 2,552.

SUPPLIED BY THE CONSOLIDATED WATER CO. See Utica.

NEWARK, 6,227.

MUNICIPAL WATER, SEWER & LIGHT COMMISSION.
Pres. Comrs., J. B. McDermott....Newark
Comr., R. A. S. Bloomer..... "
" C. P. H. Vary..... "
Supt. & Des. Engr., S. Scarth..... "
Engr. P'g. Sta., A. R. Thomas..... "
Springs & wells, 4 tubular 8-in. 100 ft. deep; one mi. from center business section; reservoir, 1,000,000 gal.; no purification.
Boilers, 2 hor. tubular 125-hp. ea. 125 lb. Phoenix 1912; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Worth. 1887, 1-1,000,000 gal. hor. simple d. act. Worth. 1887; air compress., 144 cu. ft. Ingersoll-Rand steam driven; pumping direct & to standpipe (1887) 188,000 gal.
Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 160, hose con. 2½-in. Ludlow; valves, 96 l. h. opening Kennedy & Ludlow; meters, 1000 Buffalo, National & Pittsburgh; av. daily cons. 350,000 gal.; serv. con. 1300; ord. pres. 55 to 65 lb., fire pres. same.
Rates: flat, $6 year; meter, min. charge $5 year 25,000 gal., 20c. 1000 gal. max., 8c. min.

NEWARK VALLEY, 825.

MUNICIPAL.
Pres. Vil., H. W. Ball.....Newark Valley
Trustee, Bert Bliss..... " "
" Dr. W. H. Pritchard " "
Vil. Clerk, D. A. Miller..... " "
Supt., W. B. Elwell..... " "
Spring & well, 5-in. 50-ft. deep; 500 ft. & 2½ mi. from center distribution.
Pump, 1-222,000 gal. Goulds belted to gasoline engine, 16-hp. Jacobson; elec. motor, 15-hp. 220 v. 3 ph. 60 cys. G. E.; elec. energy from municipal lighting plant; pumping direct & to reservoir. 400,000 gal.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 52, hose con. 2½-in. Eddy; valves, 40 l. h. thd. Eddy; meters, 10 various; av. daily cons. 72,000 gal.; serv. con. 204; ord. pres. 80 to 85 lb., fire pres. same.
Rates; flat, $6 year, bath $2, closet $2.50.

NEWBURGH, 27,805.

MUNICIPAL.
Supt., Curtis Stanton.....Newburgh
City & Des. Engr., W. J. Blake, Jr. "
Asst. Supt., Chas. B. Gilcrist..... "
Ch. Engr. P'g. Sta., Wm. Huston "
Chemist, Nicholas S. Hill, Jr.,
100 William St., New York
Washington Lake; 3.5 mi. from center distribution; chemical, liquid chlorine.
Boiler, hor. 100-hp.; hand stoking; pumps, 2 Worth.; elec. motors, 75 kw. 2250 v. 3 ph. Westg.; elec. energy from Central Hudson Gas & Elec. Co.; pumping direct & to reservoir.
Pipe, 4 to 30-in. c. i.; hyd., hose con. 2½-in. Eddy; valves, l. h. thd. Eddy;

meters, 3 Standard & Hersey; av. daily cons. 5,000,000 gal.; ord. pres. 40 to 175 lb., fire pres. same.

NEWPORT, 583.

MUNICIPAL.

Chmn. Comrs., M. N. Pearce.....Newport
Sec., Chas. L. Fellows..... "
Supt., J. B. Lankton..... "

Springs & reservoir, 300,000 gal.; 2 mi. from center business section; no purification; gravity distribution.

Pipe, 3.5 mi. 4 to 12-in.; hyd. 31 Ludlow; valves, r. h. thd. Ludlow; meters, 12 Buffalo; av. daily cons. 30,000 gal.; ord. pres. 74 lb., fire pres. same.

Rates: flat, $5 year, bath $1, closet $1; meter, 10c. 1000 gal.

NIAGARA FALLS, 30,445.

MUNICIPAL.

Supt., W. J. Callahan.....Niagara Falls
City Clerk, T. H. Hogan..... " "
Ch. Engr. P'g. Sta.,
B. T. Digman..... " "

Niagara River; ½ mi. from center distribution; settling basin, 1,000,000 gal.; mech. filters, 16-1,000,000 gal. ea.; chemicals, hypochlorite of lime & sylphate of alumina.

Pumps, 3-7,000,000 gal. Allis-C., 3-7,000,000 gal. ea. Allis-C., 6-6,000,000 gal. Allis-C. d. con. to elec. motor, 225 kw. 440 v. 3 ph. 25 cys. Allis-C.; elec. energy from Hydraulic & Niagara Falls Power Co.; pumping direct.

Pipe, 77.4 mi. 4 to over 30-in. c. i.; hyd. 621, hose con. 2½-in. Ludlow & Rensselaer; valves, 1834 r. h. thd. Ludlow & Rensselaer; meters, 2500 Hersey, Neptune & Thomson; av. daily cons. 11,500,000 gal.; serv. con. 8000; ord. pres. 60 to 75 lb., fire pres. 110 lb.

Rates: flat, $12 year; meters, min. charge $1.50 quarter 12,500 gal., 3c. 1000 gal.

WESTERN NEW YORK WATER CO. (Niagara Falls Division.) Office, 704 Electric Bldg., Buffalo. For officers, see Buffalo.

Supt., James H. Macbeth....Niagara Falls

Niagara River; one mi. from center distribution; settling basin, 80 ft. in. diam. 15 ft. deep; mech. filters, 14-725,000 gal.; chemical, liquid chlorine.

Pumps, 2-6,000,000 gal. Reidler, 2-2,500,000 gal. Lawrence, 2-5,500,000 gal. De Laval, 3-4,000,000 gal. Worth. all d. con. to elec. motors, 2 30-hp. 200 v. 2 ph. 25 cys. Westg. 2 35-hp. 2200 v. 2 ph. 25 cys. Westg., 3 185-hp. 2200 v. 2 ph. 25 cys. Westg.; water turbines, 2-11 ft. in diam. Pelton; pumping direct & to standpipe (1894) w. i. & elev. tank, 110,000 gal.

Pipe, 30.7 mi. 4 to 30-in. c. i.; hyd. 246, hose con. 2-in. Holly, Eddy, Ludlow; valves, 406 l. h. thd. Ludlow; meters, 106 Thomson, Hersey, Neptune & National; av. daily cons. 6,500,000 gal.; serv. con. 592; ord. pres. 50 to 80 lb., fire pres. same.

Rates: flat, $5 year, bath $3, closet $3; meter, min. charge, $6 year, $15c. 1000 gal. max., 3c. min.

NORTHPORT, 2,096.

NORTHPORT WATERWORKS CO.

NORTH TARRYTOWN, 5,421.

CONSOLIDATED WATER CO. OF SUBURBAN NEW YORK. Supplies Dobbs Ferry, Hastings, Ardsley & Scarsdale.

Pres. & Treas.,
J. E. Richards.....No. Tarrytown
Supt., J. H. Alworth..... " "

Pocantico River & Lake; 5 mi. from center distribution; impounding reservoir, 175,000,000 gal.; settling basin, 18 x 25 ft.; mechanical filters, 3,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 3 310-hp. Wetherill; hand stoking; pumps, 5-9,000,000 gal. Deane, Worth., F. M. & Wheeler; pumping to reservoir, 4,000,000 gal. & standpipes, 2 steel.

Pipe, 78 mi. 4 to 16-in. c. i.; hyd. 225, hose con. 2½-in. R. D. W., Smith & Ludlow; valves, 500 l. h. thd. Ludlow; meters, 1925 National & Neptune; av. daily cons. 3,225,000 gal.; serv. con. 2200; ord. pres. 60 to 140 lb., fire pres. same.

Rates: flat, $7 year, bath $5, closet $5; meter, min. charge $1.75 quarter 583 cu. ft., 30c. 100 cu. ft. max., 10c. min.

NORTH TONAWANDA, 11,955.

MUNICIPAL. Board of Public Works,
Chmn., Ed. O. Spillman....No. Tonawanda
Mbr., Herman Rosebrock.. " "
" John H. Calkins..... " "
" Wallace G. Palmer.. " "
" Arch. C. Scoby..... " "
Supt., John B. Batt..... " "
Engr. P'g. Sta.,
A. A. Archer..... " "

Niagara River & wells, 2 open 16 x 30 ft. 30 ft. deep; 4 mi. from center distribution; no purification.

Boilers, 4; hand & mech. stoking, Armitage Herschell; pumps, 2-2,000,000 gal. ea. Holly, 1-17,000,000 gal. Holly, 1-6,000,000 gal. Holly; pumping direct & to reservoir, 10,000,000 gal.

Pipe, 75 mi. 4 to 24-in. c. i. & wood; hyd. 400, hose con. 4-in. Holly, Ludlow, Kennedy & Hooker; valves, l. h. thd. Ludlow; meters, 30 Hersey; av. daily cons. 55,000 gal.; serv. con. 2800; ord. pres. 40 lb., fire pres. 70 lb.

NORTH WHITE PLAINS, *18,000.

THE CASTLE HEIGHTS WATER CO. Supplies White Plains. Office, 45St. Johns Place, Brooklyn, N. Y.

Pres. & Supt., John A. Drew.....Brooklyn
Sec., R. Cecil Murphy..... "
Treas. & Des. Engr.,
Wm. A. Drew..... "
Engr. P'g. Sta.,
John F. Coleman.....No. White Plains

Wells, 12 tubular 6 & 8-in. 100 to 135 ft. deep; 3 mi. from center distribution.

Boilers, 2 locomotive 225-hp. Erie; hand stoking; pumps, 2-3,000,000 gal. Worth., 1-1,500,000 gal. Worth.; pumping direct & to standpipe in White Plains, steel.

Pipe, one mi. 4 to 10-in. c. i.; hyd. 4, hose con. 2½-in. Chapman; valves, 3 r. h. thd. Chapman; meters, one Union; av. daily cons. 900,000 gal.; serv. con. 15; ord. pres. 95 to 115 lb., fire pres. 100 to 125 lb.

Rates: flat, $1.50 mo.

NORWICH, 7,422.

NORWICH WATERWORKS.

Pres., H. D. Newton.....Norwich
Treas., R. D. Eaton..... "
Sec. & Supt., W. H. Field..... "
Engr. P'g. Sta., E. F. Musson..... "
Chemist, James M. Caird,
271 River St., Troy, N. Y.

Springs & impounding reservoir, 350,000,000 gal.; 2 to 10 mi. from center distribution; settling basin, 55,000,000 gal.; mechanical filters, 300 gal.; chemical, hypochlorite of lime & sulphate of alumina.

Pump, 1-3,000,000 gal. driven by elec. motor, 180 kw.; elec. energy from Norwich Gas & Electric Co.; pumping direct & to reservoir, 35,000,000 gal.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 62, hose con. 2½-in. Chapman & Eddy; valves, Chapman & Eddy; meters, 100 National & Neptune; av. daily cons. 2,500,000 gal.; serv. con. 3000; ord. pres. 55 to 75 lb., fire pres. same.

Rates: flat, min. charge $4 year; meter, 22c. 100 cu. ft. max., 3c. min.

NORWOOD, 1,993.

MUNICIPAL,

Supt., E. J. Mulholland.....Norwood

NUNDA, 1,043.

NUNDA WATER CO.

Supt., W. H. Willard.....Nunda

Springs; 4 mi. from center distribution.

Steam supplied by electric light plant for pump, 4½ x 10 in. held in reserve.

Gravity distribution from reservoir, 50 x 50 x 12 ft.

Hyd. 42, hose con. 2½-in. Ludlow; valves, 15 l. h. thd. Ludlow; meters, 4 Buffalo; av. daily cons. 5000 gal.; serv. con. 300; ord. pres. 50 lb., fire pres. 80 lb.

Rates: flat, $8 year, bath $5, closet $5.

NYACK, 4,619.

Municipal.

Pres., H. W. Boyd.....Nyack
Comr., Warren Hill..... "
" R. E. King..... "
Supt., G. E. Wyman..... "

Hackensack River; 2 mi. from center distribution; slow sand filters, 0.38 acres.

Boilers, one return tubular 150-hp.; one water-tube 80-hp.; hand stoking; pumps, 1-1,500,000 gal. Worth., 1-750,000 gal.; pumping direct & to reservoir, 550,000 gal.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in. Rensselaer; valves, l. h. opening Rensselaer; meters, 100 National & Neptune; av. daily cons. 900,000 gal.; serv. con. 1200; ord. pres. 55 to 146 lb., fire pres. same.

OGDENSBURG, 15,933.

MUNICIPAL.

Chmn. Comrs., James M. Wells, Ogdensburg
Comr., Frank Chapman..... "
" Dr. W. N. Bell..... "
" Geo. F. Darrow..... "
Clerk, James Mulligan..... "
Supt., Harry A. Lord..... "
Cons. Engrs., Hazen & Whipple,
30 E. 42d St., New York
Ch. Engr. P'g. Sta.,
James Robinson.....Ogdensburg

St. Lawrence River; 1½ mi. from center distribution; slow sand filter, 4,000,000 gal.; chemicals, none.

Boilers, 4 hor. tubular & vert. marine 550-hp. Fitz-Gibbons; mech. stoking, Jones; pumps, 8-30,000,000 gal. Snow, Worth., Lang & De Laval; elec. motors, 175 kw. 2300 v. 2 ph. 60 cys. G. E.; pumping direct & to reservoir, 1,000,000 gal.

Pipe, 17 mi. 4 to 30 in. c. i. & cement; hyd. 208, hose con. 2½-in. R. D. W., Rensselaer & Eddy; valves, 510 r. h. opening Rensselaer & R. D. W.; meters, 73 Thomson, Union & National; av. daily cons. 2,000,000 gal.; serv. con. 3160; ord. pres. 40 to 55, fire pres. 55 to 80 lb.

Rates: flat, $5 year, bath $3, closet $3; meter, 10c. 1000 gal.

OLEAN, 14,743.

MUNICIPAL.

City Pres., M. C. Huggan.....Olean
Sec., D. P. Ray..... "
Treas., C. E. Banfield..... "
Supt., Wm. Sheahan..... "
Ch. Engr. P'g. Sta., W. B. Alger..... "

Wells, 16 tubular 6 & 8-in. 80 ft. deep; one mi. from center distribution; no purification.

Boilers, 2 fire-tube 150-hp. ea.; gas fuel; pumps, 3-8,000,000 gal. Snow, Holly & American; elec. motors, 175 kw. 2200 v. 3 ph. 25 cys. G. E.; elec. energy from Olean Electric Light & Power Co.; pumping to reservoirs, 2-10,000,000 gal.

Pipe, 43.5 mi. 4 to 30-in. ci. c.; hyd. 350; hose con. 2½-in. various; valves, r. h. thd. Rensselaer & Ludlow; meters, 2000 various; av. daily cons. 2,000,000 gal.; serv. con. 3000; ord. pres. 110 lb.

Rates: meter, min. charge 50c. quarter, 10c. 100 cu. ft. max., 4c. min.

ONEIDA, 8,317.

MUNICIPAL.

Pres. Comrs., Wm. M. Baker.....Oneida
Comr., J. A. Farrier..... "
" R. L. Crockett..... "
" Albert Morris..... "
Supt., H. M. White..... "

Springs & reservoirs, 2-80,000,000 gal.; 2 mi. from center business section; gravity distribution.

Hyd. 137, hose con. 2½-in. R. D. W. & Rensselaer; meters, 1200; serv. con. 500; ord. pres. 70 to 85 lb., fire pres. same.
Rates: meter, 25c. 1000 gal. max., 6c. min.

ONEONTA, 9,491.
ONEONTA WATERWORKS CO.
Pres., Geo. I. Wilber.....Oneonta
Sec., D. A. Diefendorf..... "
Supt., J. G. Hoyt..... "
Springs & Oneonta Creek; 4 mi. from center distribution; mechanical filters, 3,000,000 gal.; chemical, hypochlorite of lime & sulphate of alumina.
Gravity distribution from impounding reservoirs, 500,000,000 gal.
Pipe, 25 mi. 4 to 16-in. c. i.; hyd. 147, hose con. 4½-in. R. D. W. & Rensselaer; av. daily cons. 1,250,000 gal.; serv. con. 2300; ord. pres. 20 to 80 lb., fire pres. same.
Rates: flat, $6 year.

ORISKANY, 1,010.
SUPPLIED BY THE CONSOLIDATED WATER CO. See Utica.

OSSINING, 11,480.
MUNICIPAL.
Pres.,Comrs., Dr. E. B. Sherwood. Ossining
Sec., S. M. Sherwood..... "
Treas., T. H. Calam..... "
Comr., Randolph Acker..... "
Supt., James Bedell..... "
Ch. Engr. P'g. Sta.,
Wm. H. Merritt..... "
Chemist, N. S. Hill, Jr.,
100 William St., New York City
Impounding reservoirs on Indian Brook, 2-147,000,000 gal.; 2 mi. from center distribution; chemicals, liquid chlorine & copper sulphate.
Boilers, 2 return tubular Delaney; hand stoking; pumps, 1-1,000,000 gal. Deane, 1-2,000,000 gal.; pumping direct & to standpipe (1890, 1909) iron & concrete.
Pipe, 23.9 mi. 4 to 12-in. c. i.; hyd. 190, hose con. 2½-in. R. D. W.; valves, 168 l. h. thd. R. D. W.; meters, 1526 mostly Thomson; av. daily cons. 700,000 gal.; serv. con. 1874; ord. pres. 50 to 140 lb.; fire pres. same.
Rates: meter, min. charge $6 year, $1.50 1000 cu. ft.

OSWEGO, 23,368.
MUNICIPAL.
Supt., F. W. Ormsby .....Oswego
Lake Ontario, pumping direct & to reservoirs, 2-19,500,000 gal.

OWEGO, 4,633.
OWEGO WATERWORKS.
Pres., Walter Wood.....Owego
Supt., Fred H. Stiles..... "
Impounding reservoir, 30,000,000 gal. & wells, 2 open 30 ft. deep; 2½ mi. from center distribution; settling basin, 500,000 gal.; slow sand filter, 3,000,000 gal.; chemical, sulphate of alumina.
Boilers, 2 hor. 100-hp.; hand stoking; pumps, 1-2,000,000 gal. Worth. & 1-1,000,000 gal. Worth.; pumping direct & to reservoir, 1,600,000 gal.
Pipe, 25 mi. 2 to 12-in. c. i.; hyd. 77, hose con. 2½-in. R. D. W.; valves, R. D. W.; meters, 600 various; av. daily cons. 1,000,000 gal.; serv. con. 1102; ord. pres. 95 lb., fire pres. 120 lb.
Rates: flat, $5 year; bath $4, closet $5; meter, 30c. 1000 gal.

OYSTER BAY, 2,300.
NASSAU COUNTY WATER CO. Office, 51 Chambers St., New York, N. Y.
Pres., M. A. Drummond..New York, N. Y.

PAVILION, 500.
PAVILION WATERWORKS. (Privately owned.)
Owner, J. Q. V. Page.....Pavilion
Springs; reservoirs, 2-20,000 gal.; no purification; gravity distribution.
Pipe, 2 mi. 3 & 4-in.; hyd. 3; meters, 3.
Rates: flat, $6 year; meter, 50c. 1000 gal.

PEEKSKILL, 15,245.
MUNICIPAL. Board of Water Commissioners.
Pres. Bd., A. L. Sutton.....Peekskill
Sec., Frank Southard..... "
Treas., C. E. Tweedy..... "
Supt., L. G. Roake..... "
Cons. Engr., R. W. Reynolds..... "
Engr. P'g. Sta., O. W. Meeks..... "
Chemist, Lederle Laboratories...New York
Lake & Brooks; impounding reservoirs, 2-450,000,000 gal.; settling basins, 36,000 gal.; slow sand filter, 4,000,000 gal.
Boiler, 100 lb. 1893; hand stoking; pumps, 1-3,000,000 gal. Holly 1893, 1-1,000,000 gal. & 1-500,000 gal. driven by water-turbine, 1-1,000,000 gal. centrifugal Worth. 1912 driven by elec. motor; pumping to reservoir, 36,000,000 gal. & standpipe (1912) 750,000 gal.
Hyd. R. D. W.; valves, r. h. opening R. D. W.; meters, 2500; av. daily cons. 3,500,000 gal.; serv. con. 2800; ord. pres. 40 to 210 lb., fire pres. same.
Rates: meter, 10c. 100 cu. ft. max., 5c. min.

PERRY, 4,388.
MUNICIPAL.
Pres. Comrs., J. E. Cooper.....Perry
Clerk, O. M. Bolton..... "
Supt., P. A. McArthur..... "
Cons. Engr.,
C. C. Hopkins..Cutler Bldg., Rochester.
Engr. P'g. Sta., H. McGuire..... Perry.
Silver Lake; 1.5 mi. from center distribution.
Boilers, 2 return tubular 70-hp. ea. 150 lb. Erie 1914; pumps, 1-1,000,000 gal. hor. comp. duplex Worth. 1895, 1-2,000,000 gal. comp. L-D-G 1910; pumping to standpipe (1895) 100,000 gal.

Pipe, 14.5 mi. 4 to 10-in. c. i.; hyd. 123, hose con. 2½-in. Ludlow; valves, 137 l. h. opening Ross & Ludlow; meters, 26 National & Pittsburg; av. daily cons. 725,000 gal.; serv. con. 1180; ord. pres. 60 to 80 lb., fire pres. 90 lb.

Rates; flat, $6 year, bath $2.50, closet $3.50; meter, 10c. 1000 gal. max., 6.5c. min.

PHILMONT, 1,813.

MUNICIPAL.

Supt., John Damm.....Philmont

PHILADELPHIA, 842.

MUNICIPAL.

Comr., W. J. Guthrie.....Philadelphia
" Perry Wood..... "
" & Engr., P'g Sta., A. F. Ninn "
Supt., H. N. Elliott..... "

Spring; 6 mi. from center distribution; no purification.

Gravity distribution from reservoir; pipe, 4 to 10 in. c. i.; hyd. 34, hose con. 3-in. Eddy; valves, 10 r. h. thd. Eddy; meters, 2 Pittsburgh; serv. con. 220; ord. pres. 40 to 52 lb., fire pres. same.

Rates; flat, $5 year, bath $1, closet $3; meters, 8c. 100 gal.

PHOENICIA, 354.

THE PHOENICIA WATERWORKS CO.

Pres., J. L. McGrath.....Phoenicia
Gen. Mgr. & Pur. Agt.,
A. J. Simpson "

Springs & reservoirs, 2-200,000 gal.; 1.5 mi. from center business section; no purification.

Gravity distribution from reservoir, 183,000 gal.; pipe, 2 mi. 2 to 6-in. c. & galv. i.; hyd. 12, hose con. 2½-in. R. D. W.; valves, 12 r. h. opening; meters, 8 Pittsburgh; av. daily cons. 25,000 gal.; serv. con. 70; ord. pres. 60 to 75 lb., fire pres. same.

Rates; flat, $10 year, bath $3, closet $3.

PINE HILL, 417.

PINE HILL WATER CO.

Pres., F. C. Blodget.....Pine Hill
V. Pres. & Gen. Mgr., R. W. Hill. " "

Springs & impounding reservoirs, 3-300,000 gal.; near center business section; no purification.

Pumps driven by gasoline engine, 3.5-hp. Rumsey 1914; pumping to reservoir.

Pipe, 3 mi. 2 to 6-in. w. i.; hyd. 29, hose con. 2½-in.; valves, 12 r. h. opening; meters, 14 Eureka; serv. con. 100; ord. pres. 80 lb., fire pres. same.

Rates; flat, $18 year including bath & closet; meter, 50c. 1000 gal.

PITTSFORD, 1,205.

MUNICIPAL.

Pres. Comrs., Richard Smead.....Pittsford
Mbr., A. C. Clark..... "
" W. Grant Wadham..... "
Supt., L. M. Hegendorfer..... "

Lake Ontario; 15 mi. from center distribution; no purification.

Pumps, 1-173,000 gal. Goulds belted to gasoline engine, 12-hp. Sterling; pumping only in emergency direct into reservoir, 1,000,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 46, hose con. 3½-in. Ludlow; valves, 36 r. h. thd. Ludlow; meters, 390 various; av. daily cons. 34,000 gal.; serv. con. 390; ord. pres. 15 to 75 lb., fire pres. same.

Rates; all meter, min. charge $1 quarter 500 cu. ft., 15c. 1000 gal.

PLATTSBURG, 11,138.

MUNICIPAL.

Mayor, Wm. H. Goff..... Plattsburg
Chmn. Comrs., Albert Sharron. "
City Clerk, Eli Seymour..... "
Supt., Frank McKeefe..... "
Cons. Engr., H. J. Langlois.... "

Springs & impounding reservoirs, 3-280,000,000 gal.; 12 mi. from center business section; gravity districution.

Pipe, 45 mi. 4 to 12-in. c. i.; hyd. 240, hose con. 2½-in. Rensselaer; valves, l. h. opening Rensselaer; meters, 80 National, Neptune & Pittsburgh; av. daily cons. 2,000,000 gal.; serv. con. 2500; ord. pres. 65 to 100 lb., fire pres. same.

Rates; flat, $3 quarter; meter, min. charge $1.50 quarter, 10c. 1000 gal. max., 6c. min.

PLEASANTVILLE, 2,207.

MUNICIPAL.

Chmn. Comrs., L. F. Ladd....Pleasantville
Comr., E. E. Kinney..... "
" Geo. Washburne..... "
Supt., C. J. Laire..... "

Springs & small streams; 1.5 mi. from center business section; reservoir, 500,000 gal.; mech. filters, N. Y. C. Jewell; chemical, sulphate of alumina.

Pumps, 2-720,000 gal. & 432,000 gal. Rumsey 1913 & Goulds 1914 driven by elec. motors, 30 & 50-hp. 220 v. 3 ph. 60 cys. Westg. 1913-14; pumping to reservoir.

Pipe, 8.5 mi. 4 to 10-in. c. i.; hyd. 83 Pratt & Cady; valves, l. h. opening; meters, 550 National & Pittsburgh; av. daily cons. 40,000 gal.100%; serv. con. 550; ord. pres. 50 to 115 lb., fire pres. same.

Rates; meter, min. charge $1.75 quarter 580 cu. ft., $3 1000 cu. ft., max. $1.50 min.

PORT BYRON, 1,085.

MUNICIPAL.

Pres. Trustees, H. R. Warren...Port Byron
Vil. Clerk, W. C. Stilwell..... " "

Owesto River; ¼ mi. from center business section; reservoir.

Rates; flat, $3 year, closet $2.

PORT CHESTER, 12,809.

Supplied by the GREENWICH WATER COMPANY. See Greenwich, Conn.

PORT HENRY, 2,266.

MUNICIPAL.

Pres. Trustees, Geo. C. Foote..Port Henry
Sec., A. C. Lindin..... " "

Spring; 3 mi. from center distribution; no purification; gravity distribution from reservoir.

Hyd. 6, hose con. 2½-in.; serv. con. 400; ord. pres. 120 lb., fire pres. same.

Rates; flat, $6 year, bath $2, closet $2.

PORT JEFFERSON, 2,200.

PORT JEFFERSON WATER CO.

Pres., W. M. Randall.....Port Jefferson
V. Pres., E. M. Davis..... " "
Sec., Treas. & Supt.,
W. T. Wheeler..... " "
Engr. P'g. Sta., H. D. Wheeler " "

Wells, 5 artesian 6-in. 60 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 3 hor. tubular 330-hp. Ames; hand stoking; pumps, 1-360,000 gal. Worth., 1-240,000 gal. Worth.; pumping to reservoir, 250,000 gal. & standpipe (1913) iron.

Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 57, hose con. 2½-in.; valves, 25 r. h. thd. Crane; meters, 35 Neptune & Hersey; av. daily cons. 200,000 gal.; serv. con. 350; ord. pres. 100 to 150 lb., fire pres. same.

Rates; flat, $6 year; meter, 60c. 1000 gal. max., 15c. min.

PORT JERVIS, 9,564.

PORT JERVIS WATERWORKS CO. Office, 130 Pike St.

Pres., W. L. Cuddeback.....Port Jervis
Sec. & Pur. Agt.,
Christoph Graebner..... " "
Supt., Elmer H. Ellis..... " "

Impounding reservoir on springs & streams, 3-632,000,000 gal.; one to 3 mi. from center buisness section.

Pumps, 2-1,000,000 gal. hor. comp. Worth, 1908; steam engines, 2 100-hp. B. & W. 1908; pumping to reservoirs.

Pipe, 22 mi. 4 to 24-in. c. i.; hyd. 157 R. D. W.; valves, 117 r. h. opening Eddy; av. daily cons. 3,000,000 gal. 40%; serv. con. 1700; ord. pres. 40 to 60 lb., fire pres. same.

Rates; flat, $7 year, bath $3, closet $3.

PORTVILLE, 758.

MUNICIPAL.

Pres. Comrs., M. J. McCarey.....Portville
Comr., M. A. Trenkle..... "
" C. L. Keenan..... "
Sec., C. L. Ferguson..... "
Supt., H. L. Jacoby..... "

Springs; one mi. from center business section; no purification; gravity distribution from reservoir, 250,000 gal.

Pipe, 6 mi. 4 & 6-in. c. i.; hyd. 40, hose con. 2½-in.; valves, 5 r. h. opening; meters, 325 Buffalo & Pittsburgh; av. daily cons. 15,000 gal. 90%; serv. con. 330; ord. pres. 90 lb., fire pres. same.

Rates; flat, $2.50 6 mo.; meter, 27c. 1000 gal.

PORT WASHINGTON, 2,000.

NASSAU COUNTY WATER CO. Office, 51 Chambers St., New York.

Pres., M. J. Drummond.....New York

POTSDAM, 4,026.

MUNICIPAL.

Pres. Comrs., C. E. Haywood.....Potsdam
Comr., F. E. Timmerman..... "
" R. Y. Sanford..... "
Clerk, F. A. Wood..... "
Supt., G. A. Littell..... "

Raquette River; settling basins, 2-10x12x16 ft.

Boiler, hor. 150-hp. Ames; hand stoking; pumps, 4-4,800,000 gal. Goulds & Worth.; water-turbines, 275-hp.; pumping direct.

Pipe, 13.15 mi. 4 to 12-in. c. i. & wood; hyd. 105. hose con. 2½-in. R. D. W.; valves, 165 r. h. thd. Kennedy & Eddy; meters, none; av. daily cons. 100,000 gal.; serv. con. 900,000; ord. pres. 50 to 60 lb., fire pres. 85 to 100 lb.

Rates; flat, $6 year, bath $3, bath & closet, $5.

POUGHKEEPSIE, 27,936.

MUNICIPAL.

Supt., W. E. Sylvester..... Poughkeepsie
Cons. Engrs., Hazen & Whipple,
30 E. 42d St., New York City
Ch. Engr. P'g. Sta.,
W. E. Walker.....Poughkeepsie
Chemist, Thos. Cole..... "

Hudson River; 1.6 mi. from center distribution; coagulating basins; chemicals, liquid chlorine, hypochlorite of lime & sulphate of alumina.

Boilers, 7; hand stoking; pumps, 2-5,000,000 gal.; pumping direct & to reservoir.

Pipe, 28.2 mi. 4 to 30-in. c. i.; hyd. 676, hose con. 2½-in. Darling; meters, 5500 Neptune & Gamon; av. daily cons. 3,000,000 gal.; serv. con. 5000; ord. pres. 30 to 100 lb., fire pres. same.

Rates; all meter, $1.50 1000 cu ft. max., 85c. min.

PROSPECT, *600.

CHAN GLEN SPRINGS (Privately owned.)

Pres., G. P. Dodge,
2nd National Bank, Utica.
Treas., C. B. Hoge.....Prospect

Springs; ½ mi. from center business section; gravity distribution.

Rates; flat, $5 year.

PULASKI, 1,788.

MUNICIPAL.

Pres. Comrs., J. A. Madison.....Pulaski
Supt., S. W. Holmes..... "
Engr. P'g. Sta., Ed. Fitch..... "
Sec., Wm. K. Bentley..... "

Springs & brooks; one to 5 mi. from center distribution; reservoirs, 2; no purification.

QUEENS BOROUGH.

MUNICIPAL. Part of New York City water supply system. For executive officers, see New York.

Boro Engr., Jno. A. Byrne.....Queens

Driven wells & small lake 1,000,000 gal. per day & about 8,300,000 gal. per day

from Brooklyn; slow sand filters at Bayside, 5-500,000 gal. ea., filtering area 0.14 acre ea.; chemical, liquid chlorine.

Bayside Sta.: boilers, 3 water-tube 160-hp. ea. 150 lb. Heine; pumps, 4-4,000,000 gal. ea. hor. duplex Worth. 1909. Flushing Sta.: boilers, 3 water-tube 150-hp. ea. 150 lb. Heine; pumps, 1-2,000,000 gal. hor. comp. Snow 1904, 2-3,000,000 gal. ea. hor. comp. Snow 1904; pumping direct & to standpipes, 2.

Pipe, 213 mi. 4 to 30-in.; hyd. 247; valves 3562; av. daily cons. 33,000 gal.

CITIZENS WATER SUPPLY CO. Supplies Second Ward.

JAMAICA WATER SUPPLY CO. Supplies Fourth Ward.

WOODHAVEN WATER SUPPLY CO. Supplies Fourth Ward.

QUEENS COUNTY WATER CO. Supplies Fifth Ward.

RANDOLPH, 1,298.

MUNICIPAL.

Pres. Comrs., A. G. Dow, Jr.....Randolph
Comr., Geo. Bowen..... "
" & Supt., W. L. Rathbone. "

Springs & artesian wells; no purification.

Gravity distribution from reservoir, 2-2,500,000 gal.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 31, hose con. 2½-in. Ludlow; valves, 26 l. h. opening; meters, 3 Hersey; serv. con. 400; ord. pres. 45 to 100 lb., fire pres. same.

Rates; flat, $4 year, bath $2, closet $2; meter, 10c. 1000 gal.

RAVENA, 1,200.

HANNACROIX WATER CO. Supplies Coeymans.

Pres., H. F. Greene..90 State St., Albany
V. Pres., Silas Deane.....Freehold
Sec. & Treas.,
R. D. Lamb.....447 Third St., Troy
Supt., E. W. Moxley.....Ravena
Cons. Engr., Robt. E. Horton.....Albany
Chemist, Geo. E. Willcomb..... "

Hannacroix Creek; impounding reservoirs, 2-75,000,000 gal.; 3 mi. from center business section; chemicals, liquid chlorine.

Gravity distribution from reservoirs; hyd. 64, hose con. 2-in.; av. daily cons. 1,000,000 gal.; serv. con. 389.

RED HOOK, 960.

MUNICIPAL.

Vil. Pres., Benj. R. Horton.....Red Hook
Trustee, Joseph Griffing..... "
" Herbert Neher..... "
Supt., Frank E. Burnett..... "
Engr. P'g. Sta., Henry S. Lasher. "
Chemist, Dr. Joseph E. Vigeant.. "

Springs & wells, 2 open; 2 mi. from center distribution; no purification.

Boilers, locomotive 40-hp. Erie; hand stoking; pumps, 1-360,000 gal. Worth.; pumping to reservoir, 300,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 3-in. Michigan; valves, 30 r. h. thd. Michigan; meters, 110 Thomson; serv. con. 140; ord. pres. 80 to 90 lb.

Rates; flat, min. $1 quarter; meter, $2.25 1000 cu. ft.

RENSSELAER, 10,771.

RENSSELAER WATER CO.

Pres., Geo. F. West.....Rensselaer
V. Pres. & Treas., Vernon F. West "
Supt., R. L. Hinkley..... "
Chemist,
James M. Caird...271 River St., Troy

Hudson River; sedimentation basin; mech. filters, 3,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 3 tubular 250-hp. Dillon; hand; stoking; pumps, 1-3,000,000 gal. L-D-G.; pumping to reservoir, 6,000,000 gal.

Pipe, 18 mi. 4 to 16-in. c. i.; hyd. 193, hose con. 2½-in. Ludlow; valves, l. h. opening Ludlow; meters, 200 Pittsburgh; av. daily cons. 1,500,000 gal.; serv. con. 1900; ord. pres. 50 to 120 lb., fire pres. same.

Rates; flat, $12 year including bath & closets; meters, 20c. 1000 gal. max., 10c. min.

RHINEBECK, 1,548.

RHINEBECK WATER CO.

Pres., W. B. Mutch.....Rhinebeck
Treas. & Des. Engr.,
H. W. Mutch..... "
Sec., R. R. Rikert..... "
Supt., John La Polt, Jr..... "
Engr. P'g. Sta., Benj. Hepburn.. "

Wells, 5 tubular 275 ft. deep; 1.25 mi. from center distribution; no purification.

Pumps, 2 deep-well Keystone, 2-908,000 gal. triplex Platt; gasoline engine, 100-hp. F. M.; elec. motors, 2 10-hp. 220 v. s. ph. 60 cys. Wagner; elec. energy from Dutchess Light & Power Co.; air compressors, 2 F. M. & Ingersoll-Rand; pumping direct & to reservoir, 500,000 gal.

Pipe, 15 mi. 4 to 12-in.; hyd. 92, hose con. 2½-in. Rensselaer; valves, l. h. thd.; meters, 500 Thomson; av. daily cons. 7,500,000 gal.; serv. con. 500; ord. pres. 85 to 95 lb., fire pres. 95 to 150 lb.

Rates; meter, 40c. 1000 gal. max., 30c. min.

RICHMOND BOROUGH.

MUNICIPAL. Part of the New York City water supply system. For executive officers, see New York.

Driven wells.

West New Brighton Sta.: boilers, one hor. tubular 110-hp. 90 lb. Bigelow, 2 internally fired 150-hp. 135 lb. Morris, 3 150-hp. ea. 135 lb. Morris; pumps, 3-4,300,000 gal. ea. hor. comp. Holly 1888, 5-4,000,000 gal. ea. tri. exp. d. act. Worth. 1914.

Clove Sta.: boilers, one hor. return tubular 75-hp. 80 lb. Reading, 2 hor. return tubular 80-hp. ea. 80 lb. Vogt., 3 hor. tubular 70-hp. ea. 80 lb. Allen; pumps, 1-2,200,000 gal. hor. comp. d. act. Deane 1886, 2-1,200,000 gal. hor. comp. d. act. Worth. 1908, 3-1,400,000 gal. hor. comp. d. act. Worth. 1897, 4-400,000 gal. ea. hor. comp. d. act. Deane 1886. New Bullshead Sta.: boilers, 3 hor. tubular 100 & 150-hp. 135 lb. Union & Columbian; pumps, 1-2,200,000 gal. vert. comp. d. act. Heisler 1905, 2-1,400,000 gal. hor. comp. d. act. Deane 1907. New Springville Sta.: boilers, 2 hor. return tubular 100-hp. ea. 125 lb. Ames; pumps, 2-1,000,000 gal. ea. hor. tri. exp. d. act. Worth. 1899. Grand City Sta.: boilers, 2 hor. tubular 80 & 100-hp. 115 lb. Erie, one internally fired 150-hp. 115 lb. Morris; pumps, 1-1,000,000 gal. vert. d. act. Bethlehem 1904, 1-1,200,000 gal. hor. comp. d. act. Worth. 1908. Tottenville Sta.: boilers, 2 hor. return tubular 40-ph. ea. 80 lb. Cornell & Underhill, one water-tube 100-hp. 150 lb. B. & W.; pumps, 2-400,000 gal. hor. comp. d. act. Worth. 1897. Boulevard No. 1 Sta.: boilers, 2 hor. return tubular 100 & 150-hp. 90 & 130 lb. Ames & Columbian; pumps, 1-1,200,000 gal. hor. comp. d. act. Deane 1912, 1-2,200,000 gal. hor. comp. d. act. Worth. 1912. Boulevard No. 2 Sta.: boilers, one hor. return tubular 150-hp. 140 lb. Heine; pumps, 1-2,000,000 gal. hor. tri. exp. d. act. Worth. 1914; pumping direct & to standpipe, 900,000 gal. & reservoir, 10,020,000 gal.

Pipe, 2.3 mi. 4 to 30-in.; hyd. 2413; valves, 4411; av. daily cons. 11,700,000 gal.

South Shore Waterworks Co. Supplies part of Richmond.

RIPLEY, 1,100.

Ripley Water Supply Co.

Pres., F. M. Randall.....Ripley
Sec. & Treas., R. D. Hildred..... "
Gen. Mgr., H. N. Randall..... "

Creeks & impounding reservoirs, 2-33,000,000 gal.; 2.5 mi. from center business section; no purification; gravity distribution.

Hyd. 33; meters, 5; serv. con. 250; ord. pres. 100 lb., fire pres. same.

Rates; flat, $6 year, bath $2, closet $2.50; meter, $6 year.

RIVERHEAD, 2,500.

Riverhead Water Co.

Pres. & Treas., F. M. Griffing...Riverhead
Supt., F. L. Griffing..... "
Ch. Engr. P'g. Sta., R. P. Griffing "

Wells, 4 tubular 6-in. 60 ft. deep; no purification.

Pumps, 1-720,000 gal. Goulds, 1-187,500 gal. Knowles belted to gasoline engine, 30-hp. National; pumping to elev. tank (1890) 48,000 gal.

Hyd. 21, hose con. 3½-in. Holly & Kennedy; meters, 30; serv. con. 140; ord. pres. 30 lb., fire pres. 80 lb.

The Riverhead Board of Water Commissioners have let a contract to Lincoln-Steele-Flemming Co., New York, N. Y., to lay mains, provide & install fire hydrants, erect tower & tank, etc., for proposed municipal plant to cost $65,668.

ROCHESTER, 218,149.

Municipal.

Comr., H. W. Pierce.....Rochester
Supt., Beekman C. Little..... "
Cons. Engr., Edwin Fisher..... "
Chemist, Charles W. Dodge..... "

Hemlock Lake; 30 mi. from center distribution; chemical, copper sulphate.

Boilers, 2 Scotch marine 250-hp. ea. Penn.; hand stoking; pumps, 4-8,000,000 gal. Holly & D'Olier, 1-3,000,000 gal. centrifugal Worth. d. con. to elec. motor, 275-hp. a. c. 3 ph.; elec. energy from Rochester Ry. & Lt. Co.; gravity distribution from reservoirs, 2-160,000,000 gal.

Pipe, 400 mi. 4 to over 30-in. c. i.; hyd. 5115, hose con. 2½-in. R. D. W.; valves, 8200 r. h. opening Rensselaer; meters, 43,900 National, Hersey, Thomson & Neptune; av. daily cons. 23,700,000 gal.; serv. con. 44,800; ord. pres. 50 lb., fire pres. 70 to 140 lb.

Rates: all meter, min. charge $4 year, 14c. 1000 gal. max., 10c. min.

Rochester & Lake Ontario Water Co. Supplies Greece, Gates, Brighton, Pittsford, Perinton, Irondequoit & Penfield, all suburbs of Rochester.

Pres. & Treas.,
Henry C. Brewster.....Rochester
V. Pres. & Gen. Mgr.,
Alvin H. Dewey..... "
Sec., Alexander Russell..... "
Supt., Geo. H. Bliven..... "
Cons. Engr., E. A. Fisher..... "
Ch. Engr. P'g. Sta., John F. Amos "
Chemist,
James M. Caird.....271 River St., Troy

Lake Ontario; 15 mi. from center distribution; settling basin, 436,000 gal.; mech. filters, 4,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & copper sulphate.

Boilers, 3 water-tube 900-hp. B. & W.; hand stoking; pumps, 2-3,000,000 gal. ea. hor. comp. Wetherill 1904, 1-6,000,000 gal. hor. elec. motor driven Nordberg 1913, 1-5,000,000 gal. steam engine driven Morris 1907, 1-6,000,000 gal. Goulds 1913 d. con. to elec. motor, 600-hp. 375 v. 3 ph. 25 cys. Westg.; pumping direct, to reservoir, 2,600,000 gal. & standpipe (1904) steel.

Pipe, 90 mi. 4 to 30-in. c. i.; hyd. 127, hose con. 2½-in. Ludlow & Rensselaer; valves, l. h. opening Ludlow & Rensselaer; meters, 3725 National & Neptune; av. daily cons. 4,500,000 gal.; serv. con. 3725; ord. pres. 50 to 125 lb., fire pres. same.

Rates: all meter, 20c. 1000 gal. max., 10c. min.

ROCKVILLE CENTER, 3,667.

MUNICIPAL.

Pres. Trustees,
D. N. Bulson.....Rockville Center
Trustee, James Carty..... " "
" Edwin Wallace... " "
" Jos. Russ..... " "
" John Cross..... " "
Engr. P'g. Sta., H. C. Major " "
Clerk, Geo. S. Utter..... " "

Wells, 4 tubular 4 to 8-in. 60 to 90 ft. deep; no purification.

Boilers, 3 Scotch marine 250-hp.; hand stoking; pumps, 1-288,000 gal. Worth., 1-864,000 gal. Platt, 1-1,440,000 gal. triplex Rumsey driven by elec. motors, 37.5 kw. 2300 v. 2 ph. 60 cys. G. E.; pumping to standpipe (1897) iron.

Pipe, 26 mi. 4 to 12-in. c. i.; hyd. 150, hose con. 2½-in.; ord. pres. 40 to 45 lb., fire pres. same.

ROME, 20,497.

MUNICIPAL.

Pres. Comrs., H. W. Barnard.....Rome
Comr., John T. Wiggins..... "
" Jas. A. Spargo..... "
" L. V. Jones..... "
Supt., Ray Armstrong..... "
Cons. Engr., C. W. Knight..... "

Fish Creek; 13 mi. from center distribution; no purification.

Gravity distribution from reservoir, 15,000,000 gal.; pipe, 50 mi. 4 to 30-in. c. i.; hyd. 350, hose con. 2½-in. Ludlow; valves, 500 Ludlow; meters, 100 Neptune; av. daily cons. 6,000,000 gal.; serv. con. 4414; ord. pres. 50 to 80 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $3; meter, 20 c. 1000 gal. max., 2c. min.

ROSLYN, 2,000.

MUNICIPAL.

Pres., J. F. Rensen.....Roslyn
Comr., Ralph Tubby..... "
" J. Kirshner..... "
Sec., W. Sharlick..... "
Engr. P'g. Sta., Geo E. Robertson.. "

ROUND LAKE, 203.

ROUND LAKE ASSOCIATION.

Pres., J. V. S. Jacobs.....Round Lake
V. Pres., Chas. G. Eddy..... " "
Trustee, Geo. P. Paul..... " "
Supt., John D. Rogers..... " "

Springs & brook; 2 mi. from center distribution; impounding reservoir, 800,000 gal.; no purification.

Boiler, 20-hp.; hand stoking; pumps, 2 steam Cole; elec. motors, 220 kw. 3 ph. 40 cys. G. E.; elec. energy from Dwass Electric Co.; pumping direct & to elev. tanks, 2-40,000 gal. ea. wood.

Hyd. 18, hose con. 3-in.; valves, r. h. thd. Ludlow, Eddy & Rensselaer; av. daily cons. 80,000 gal.; serv. con. 350; fire pres. 50 lb.

Rates: flat, $5 year, bath $3, c'oset $2.

ROUSES POINT, 1,638.

MUNICIPAL.

Pres. Comr., W. H. Coates....Rouses Point
Comr., Roy Delano..... " "
Supt., H. A. Borin..... " "

Lake Champlain; ½ mi. from center business section; mechanical filters, 2-40,000 gal. ea. N. Y. C. Jewell; chemical, hypochlorite of lime.

Boilers, 2 50-hp. ea. 70 & 75 lb. Phoenix 1889 & 1892; hand stoking; pumps, 2-1,000,000 gal. ea. hor. comp. d. act. Worth. 1889 & 1892; pumping direct.

Pipe, 8 mi. 2 to 10-in. c. i.; hyd. 70, hose con. 2½-in. Galvin; valves, 38 l. h. opening Galvin; av. daily cons. 325,000 gal.; serv. con. 382; ord. pres. 40 to 45 lb., fire pres. 45 to 75 lb.

Rates: flat, $1.50 quarter, bath $1, closet $1; meter, min. charge $6 year; 30c. 1000 gal.

ST. JOHNSVILLE, 2,536.

MUNICIPAL.

Pres. Comr., J. H. Reaney...St. Johnsville
Comr., C. J. Lampman..... " "
" Henry Taubman..... " "
Clerk, L. G. Walbrath..... " "
Supt., Geo. A. Allen..... " "

Springs; 7 mi. from center business section; settling basin, 2-50,000 gal.; gravity distribution from reservoirs, 2-2,000,000 gal.

Pipe, 13 mi. 4 to 10-in. c. i., hyd. 67, hose con. 2½-in. R. D. W.; valves, 40 r. & l. h. opening; meters, 125 Neptune; av. daily cons. 200,000 gal.; serv. con. 600; ord. pres. 100 to 110 lb., fire pres. same.

ST. REGIS FALLS, 1,323.

ST. REGIS WATERWORKS.

Owner, Ophelia O'Neil.....St. Regis Falls
Supt., H. E. O'Neil..... " " "

Springs; 2 mi. from center distribution; no purification.

Gravity distribution from reservoir, 300,000 gal.

Valves, 4; meters, one Pittsburgh; serv. con. 60; ord. pres. 20 to 80 lb.

Rates: flat, $6 year.

SALAMANCA, 5,792.

MUNICIPAL.

Chmn. Comrs., W. A. Oakes....Salamanca
Comr., Dr. J. A. Taggart..... "
" E. B. Fitzgerald..... "
Supt., H. E. Heller..... "

Impounding reservoir, 2,000,000 gal.; ½ mi. from center distribution; no purification.

Pumps, 1-1,500,000 gal. Worth., 1-2,500,000 gal. Worth.; gasoline engines, 135-hp. Bruce-Macbeth; elec. motors, 100-kw. 2200 v. 3 ph. 60 cys. G. E.; elec. energy from municipal plant; pumping direct & to reservoir, 500,000 gal.

Pipe, 15.5 mi. 4 to 12 in. c. i.; hyd. 116, hose con. 2½-in. R. D. W., Rensselaer & Smith; valves, 135 r. h. thd. R. D. W. & Rensselaer; meters, 27 various; av. daily cons. 1,200,000 gal.; serv. con. 1500; ord. pres. 45 to 90 lb., fire pres. 90 lb.

Rates: flat, $12 year, bath & closet included; meters, 25c. 1000 gal. max., 25c. min.

SANDY CREEK, 617.

MUNICIPAL.

Comr., F. D. Corse.....Sandy Creek
" S. E. Wheeler..... " "
" C. G. Thomas..... " "
Supt., C. W. Colony..... " "
Clerk, E. H. Dorland..... " "

Springs; 3 mi. from center distribution; gravity distribution from reservoir.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in.; valves, r. h. thd.; serv. con. 260; ord. pres. 95 to 100 lb., fire pres. same.

SARANAC LAKE, 4,983.

MUNICIPAL.

Pres. Comrs., Frank Sheldon. Saranac Lake
Comr., Isaiah Vosburg..... " "
" A. C. Branch..... " "
Clerk, Seaver A. Miller..... " "
Supt., Sm. Demerse..... " "
Des. Engr., J. L. Collins..... " "

McKenzie Pond; ¼ mi. from center distribution; no purification.

Pumps, 2-1,000,000 gal. ea. Platt; pumping direct & to reservoir, 1,500,000 gal.

Pipe, 22 mi. 4 to 12-in. c. i.; hyd. 150, hose con. 2½-in. Ludlow, Darling; valves, 340 l. h. thd. Chapman & Darling; av. daily cons. 1,000,000 gal.; serv. con. 900; ord. pres. 80 lb., fire pres. same.

SARATOGA SPRINGS, 12,693.

MUNICIPAL. SEWER, WATER & STREET COMMISSION.

Comr., J. T. Groul.....Saratoga Springs
Sec., Clarence Bird..... " "
Ass't. Supt., C. J. Callohan " "
Engr. P'g. Sta.,
Geo. M. Bacon..... " "
Lougleberry Lake.

Boilers, 4 hor. tubular 65-hp. ea. 65 lb., Collins 1902; pumps, 1-1,800,000 gal. hor. comp. c. & f. wh. Holly 1900, 1-1,500,000 gal. Holly 1874.

SCARSDALE, 349.

Supplied by the Consolidated Water Co. of Suburban New York. See Tarrytown.

SCHENECTADY, 72,826.

MUNICIPAL.

Supt. & Des. Engr.,
C. C. McWilliams.....Schenectady
Ch. Engr. P'g. Sta.,
W. D. Griffin..... "

Infiltration galleries, 3-40 to 45 ft. deep; 3 mi. from center distribution; no purification.

Pumps, 1-10,000,000 gal. Worth., 1-13,500,000 gal. Worth, 1-8,500,000 gal. Morris all d. con. to elec. motors, one 450-hp. & 2 800-hp. 550 v. 3 ph. 60 cys. G. E.; elec. energy from Schenectady Illg. Co.; pumping direct & to reservoir, 20,000 gal.; standpipe (1895) steel.

Pipe, 104 mi. 4 to over 30-in. c. i. & steel; hyd. 1436, hose con. 2½-in. various; valves, 2361 r. h. opening Ludlow & Rensselaer; meters, 900 Neptune, Thomson & Pittsburgh; av. daily cons. 11,029,000 gal.; serv. con. 13,600; ord. pres. 85 to 93 lb.

Rates: flat, min. charge $2.50 year, bath $1, closet $1; meter, min. charge $3 year, 5c. 100 cu. ft. max., 4c. min.

SCHOHARIE, 996.

MUNICIPAL.

Pres. & Trustee, R. F. Taylor....Schoharie
Trustee, John Smith..... "
" Wm. Burton..... "
Sec., Elmer Taylor..... "

Springs; 2.5 mi. from center distribution; reservoir, 350,000 gal.; pumps driven by gasoline engine, 10-hp. F. M. 1908; pumping to standpipe (1902).

Pipe, 5 mi. 4 to 8-in.; hyd. 56, hose con. 3-in. Rensselaer; valves, 28 l. h. opening Rensselaer; av. daily cons. 50,000 gal.; hose con. 300; ord. pres. 100 lb., fire pres same.

Rates: flat, $5 year, bath $3, closet $2.

SEACLIFF, 1,694.

SEACLIFF WATER CO. Office, 115 Worth St., New York City.

Supt., E. M. Luden.....New York City

SENECA FALLS, 6,588.

SENECA WATER CO.

Attorney & Mgr., H. A. Carmer, Seneca Falls
Supt., A. N. French..... " "
Cons. Engrs.,
W. G. Stone & Son.....Utica, N.

Cayuga Lake; 3 mi. from center distribution; mech. filters, 2,000,000 gal.; chemicals, none.

Boilers, 2 return tubular 100-hp. Ames; hand stoking; pumps, 2-3,000,000 gal.; pumping direct & to standpipe, iron.

Pipe, 15.6 mi. 4 to 30-in. c. i.; hyd. 139, hose con. 2½-in. Ludlow; valves, 150 l. h. thd. Ludlow; meters, 55 various; av. daily cons. 1,000,000 gal.; serv. con. 1800; ord. pres. 30 to 85 lb.

Rates: flat, $8 year, bath $5, closet $5; meters, min. charge $12 year, $2 1000 cu. ft. max., $1 min.

SHERBURNE, 960.

MUNICIPAL.

Comr., R. P. Kutschbach.....Sherburne
" W. H. Wilcox..... "
" W. W. Benedict..... "
Supt., Alfred Wilcox..... "
Clerk, Levi Collins..... "

Springs; 1¼ mi. from center distribution; no purification.

Gravity distribution from reservoir, 38,-191,000 gal.; hyd. 32, hose con. 2¾ in.; serv. con. 250; ord. pres. 75 to 90 lb.

Rates: flat, $5 year, bath $4, closet $3

SHORTSVILLE, 1,112.

MUNICIPAL.

Pres. Comr., W. C. Ellis.....Shortsville
Sec., W. H. Preston..... "
Supt., Chas. H. Davidson..... "

Wells, 2 tubular 6-in. 86 to 100 ft. deep; one mi. from center business center; no purification.

Pumps driven by elec. motor, 30 k. w., 2300 v. 3 ph. 60 cys. Westg.; elec. energy from Ontario Light & Traction Co.; pumping direct to elev. tank (1909) 75,000 gal. steel.

Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½-in. Eureka; valves, l. h. th. Ludlow; meters, 205; av. daily cons. 20,000 gal.; serv. con. 210; ord. pres. 56 to 72 lb., fire pres. same.

Rates: meter, min. charge $2 quarter 5000 gal., 20c. 1000 gal.

SIDNEY CENTER, 2,507.

SIDNEY CENTER WATER CO.

Pres., C. L. Andrus.....Sidney Center
Supt., C. B. Dibble..... " "

Springs & streams; 1.5 mi. from center distribution; small settling basin & charcoal filter.

Gravity distribution.

Pipe, 2.8 mi. 4 to 12-in. c. i.; hyd. 15 Chapman; valves, 8 r. h. thd. Chapman; meters, none; serv. con. 87; ord. pres. 50 lb., fire pres. same.

Rates: flat, $8 year, bath $2, closet $2.

SILVER SPRINGS, 974.

MUNICIPAL.

Pres. Trustee, J. E. Nash....Silver Springs
Trustee, John Rites..... " "
" Henry Dixon..... " "
Supt. Chas. Bogart..... " "

Springs & wells, 2 artesian 8-in. 210 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, 1-360,000 gal. hor. centrifugal driven by elec. motor, 25-hp. 220 v. 3 ph. 60 cys. G. E. 1912; air compressor, 300 cu. ft. Planton 1912; gas engine, 75-hp. National 1912; pumping to reservoir, 400,000 gal.

Pipe, 5 mi. 6 to 12-in. c. i.; hyd. 38, hose con. 2½-in. Eddy; meters, none; av. daily cons. 80,000 gal.

Rates: flat, $5 year, bath $2,50, closet $2.50.

SINCLAIRVILLE, 542.

MUNICIPAL.

Vil. Pres., C. M. Reed.....Sinclairville
Supt., M. N. Smith..... "

Springs; 2 mi. from center distribution; no purification.

Gravity distribution from reservoir, 75,000 gal.

Hyd. 25, hose con. 3-in.; serv. con. 125; ord. pres. 80 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $3.

SKANEATELES, 1,615.

MUNICIPAL.

Comr., John E. Heywood.....Skaneateles
Comr. Geo. W. Tucker.....Skaneateles
" F. G. Weeks..... "
Vil. Clerk, E. C. Miller..... "
Supt. & Engr. P'g. Sta.,
James Haskins..... "

Skaneateles Lake; near center distribution; no purification.

Boilers, 2 return tubular 280-hp. Erie; hand stoking; pumps, 2-1,200,000 gal. Worth. & Deane; elec. motors, 25 kw. 220 v. s. ph. 60 cys. Wagner; elec. energy from village elec. light plant; pumping direct & to reservoir, 850,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 52, hose con. 2½-in. Eddy; valves, 56 r. h. thd. Michigan; meters, 15 National; av. daily cons. 300,000 gal.; serv. con. 445; ord. pres. 78 lb., fire pres. same.

Rates: flat, $3 year, bath & closet $5; meter, 25c. 1000 gal. max., 8c. min.

SKANEATELES WATER WORKS CO.
(Controlled by American Pipe & Construction Co., 112 No. Broad St., Philadelphia, Pa.)

Pres., J. W. Hawley.....Philadelphia, Pa.
Sec.,
Mrs. Justice Thompson. " "
Treas., M. H. Thompson.. " "
Supt., C. W. Polley..... " "

Skaneateles Lake; no purification.

Boilers, 50-hp.; pump, one Barr; pumping to standpipe.

Pipe, mi. 4 to 10-in.; hyd. 39; valves, 25; av. daily cons. 55,000 gal.; serv. con. 212; ord. pres. 65 lb.

SODUS, 1,500.

MUNICIPAL.

Chmn. Comr., H. L. Kelly.....Sodus
Comr., C. W. Conant..... "
" M. F. Boyd..... "
Clerk, Geo. Knapp..... "

Springs; one mi. from center distribution; gravity distribution from reservoir.

SOLVAY, 5,139.

MUNICIPAL WATER & LIGHT COMMISSION.

Pres. Comr., W. C. Kanar.....Solvay
Supt., C. H. Cross..... "
Sec. E. M. Hall..... "
Chemist, Dr. Carroll.....Syracuse

Otisco Lake; 17 mi. from center business section; reservoir, 5,500,000 gal.; no purification.

Pumps, 1-800,000 gal. vert. triplex Goulds 1902 geared to elec. motor, 40 to 75-hp. 2200 v. 3 ph. 60 cys. Westg. 1913, 1-1,000,000 gal. hor. centrifugal Goulds 1913 d. con. to elec. motor, 40-hp. 2200 v. 3 ph. 60 cys. Westg. 1913, elec. energy from Syracuse Lighting Co.; pumping to reservoir above.

Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 151, hose con. 2½-in. Eddy; valves, 96 l. h. opening Eddy; meters, 900 Neptune; av. daily cons. 450,000 gal.; serv. con. 950; ord. pres. 50 to 130 lb., fire pres. same.

Rates: meter, min. charge $3 6 mo. 3000 cu. ft., $1.50 1000 cu. ft. max 90c. min.

SPENCERPORT, 1,000.

MUNICIPAL.

Pres. Trustee, Wm. R. Barrett, Spencerport
Sec., W. W. Sperry..... "
Supt., John Ballard..... "
Con. Engr., Chas. A. Bowman....Syracuse
Engr. P'g. Sta., Nichols Cook..Spencerport

Wells, 12.5 ft. diam. 20 ft. deep; 5 mi. from center business section; pumps, 1-360,000 gal. vert. triplex Rumsey 1910; geared to gasoline engine, 2 18-hp. ea. DuBois 1910; pumping to elev. tank (1910) 100,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 4.7 mi. 4 to 10-in. c. i.; hyd. 45, hose con. 2½-in. Ludlow; valves, 37 l. h. opening Ludlow; av. daily cons. 37,500 gal.; serv. con. 300; ord. pres. 70 to 95 lb., fire pres. same.

SPRING VALLEY, 2,353.

Supplied by the Hackensack Water Co. See New Milford, N. J.

STAMFORD, 973.

STAMFORD WATER CO.

Pres., J. C. Van Dyke.....Stamford
V. Pres., M. J. McNaught..... "
Sec., R. H. Barnes..... "
Treas., E. C. Hamford..... "
Supt., C. J. Hamilton..... "

Springs at head of Delaware River & wells, 2 artesian 5-in. 200 & 244 ft. deep; 3 mi. from center distribution; mechanical filters, 3-288,000 gal. N. Y. C. Jewell; chemicals, none.

Pump, 1-172,800 gal. Rumsey driven by gasoline engine, 13-hp. Advance; pumping direct.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 39, hose con. 3-in. Ludlow; valves, 28 r. h. thd. Ludlow; meters, 10 Ludlow; av. daily cons. 100,000 gal.; serv. con. 180; ord. pres. 120 lb., fire pres. same.

SUFFERN, 2,666.

MUNICIPAL. BOARD OF WATER COMMISSION.

Pres., J. L. Crane.....Suffern
Comr., W. F. Findley..... "
Sec., Frank E. Willey..... "

Springs, Mahwah River, Antri Lake & wells, 12 ft. diam. 40 ft. deep; near center business section; mechanical filters, 800,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Pump, 2-400,000 gal. ea. vert. triplex Rumsey 1900 clutch con. to gas engine, 2 25-hp. ea. National 1900; pumping to reservoir, 579,000 gal.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 86, hose con. 2½-in. Eureka; valves, 50 mostly r. h. opening Eddy, Crane & Kennedy; meters, 600 various; av. daily cons. 200,000 gal. 90%; serv. con. 600; ord. pres. 75 to 90 lb., fire pres. same.

Rates: meter, 20c. 100 cu. ft. max., 12c. min.

SYRACUSE, 137,249.

MUNICIPAL. DEPARTMENT OF PUBLIC WORK.

Supt., Chas. Windholz.....Syracuse
City Engr. C. F. Browning..... "

Lake Skaneateles; no purification; gravity distribution from reservoir, 121,000,000 gal. & standpipe (1908) 1,230,000 gal.

Pipe, 213 mi. 3 to 36-in. c. i.; hyd. 3,209, hose con. 4-in.; valves, 3002; meters, 26,116 National, Thomson & Neptune; av. daily cons. 21,000,000 gal. 66%; serv. con. 26,664; ord. pres. 15 to 100 lb., fire pres. same.

Rates: meter, min. charge $5 year 4200 cu. ft., 12c. 100 cu. ft. max., 3.5c. min.

TARRYTOWN, 5,600.

MUNICIPAL.

Pres. Comrs., Dr. N. H. Freeland, Tarrytown
Comr., C. S. Davison..... "
Clerk, J. Wyckhoff Cole..... "
Supt. & Des. Engr., & Chemist, J. R. Losee..... "
Engr. P'g. Sta., James J. Richards "

Lake & spring; one mi. from center distribution; mech. filters, 5-500,000 gal. ea.; chemicals, liquid chlorine, sulphate of alumina & copper sulphate.

Boilers, 2 hor. tubular 125-hp. ea. Granger; hand stoking; pumps, 4-6,500,000 gal. Worth.; pumping to reservoir, 2-1,200,000 gal. ea.

Pipe, 25.18 mi. 4 to 12-in. c. i.; hyd. 241, hose con. 2½-in. R. D. W.; valves, 374 r. & l. h. thd. Eddy; meters, 962 National; av. daily cons. 750,000 gal.; serv. con. 1122; ord. pres. 11 to 195 lb., fire pres. 40 to 215 lb.

Rates: meter, min. charge $3 4000 cu. ft., $1.50 1000 cu. ft.

TONAWANDA, 8,290.

MUNICIPAL.

Supt., James Cromay.....Tonawanda
Des. Engr., Ben. Hinkey..... "
Engr. P'g. Sta., F. E. Chase.... "

Niagara River & well, 13 ft. in diam. 25 ft. deep; no purification.

Boilers, 3 hor. 125-hp. Erie; pumps, 1-1,000,000 gal. Holly, 1-8,000,000 gal. Holly, 1-12,000,000 gal. Holly.

Pipe, 25 mi. 4 to 12-in. c. & w. i.; hyd. 275, hose con. 2½-in.; av. daily con. 5,000,000 gal.; ord. pres. 50 lb., fire pres. 75 to 125 lb.

TROY, 76,813.

MUNICIPAL.

Supt., J. M. Diven.....Troy
Des. Engr., John Flynn..... "
Engr., John H. Eglof..... "

Mountain Creeks & impounding reservoirs, 15,500,000 gal.; 10 mi. from center distribution; gravity distribution from reservoirs, 3-265,000,000 gal.

Pipe, 117 mi. 4 to 30-in. c. i.; hyd. 1080, hose con. 4-in. Ludlow; valves, 1350 r. h.

thd. Ludlow; meters, 292; av. daily cons. 22,000,000 gal.; serv. con. 15,000; ord. pres. 30 to 70 lb., fire pres. 30 to 45 lb.

Rates: meter, 5c. 1000 gal.

TUPPER LAKE, 3,167.

TUPPER LAKE CO.

Pres., Wm. Barbour,
96 Franklin St.....New York, N. Y.
Treas. & Gen. Mgr.,
D. C. Randoll.....Tupper Lake
Cons. Engr., A. W. Cudderback,
158 Ellison St., Paterson, N. J.

Springs & Brooks; 3.5 mi. from center business section; pumps, 1-36,000 gal. Rumsey 1907.

TURIN, 349.

MUNICIPAL.

Chmn. Comr., D. F. Davis.....Turin
Comr., W. S. Hart..... "
" J. H. Carpenter..... "
Sec., G. H. Seaver..... "

Springs & reservoirs, 250,000 gal.; one mi. from center business section; no purification; gravity distribution.

Pipe, 3.5 mi. 4 to 8-in. c. i.; hyd. 26 Rensselaer; valves, 9 r. h. opening Rensselaer; serv. con. 150; ord. pres. 100 lb., fire pres. same.

Rates: flat, $5 year, bath $2, closet $2.

UNIONVILLE, 315.

UNIONVILLE WATER WORKS CO.

Pres., E. A. Nugeul.....Unionville
Sec. & Treas., John Seaford..... "
Supt., T. M. Terry..... "

Wells, supplied by reservoirs, 10,000 gal.; gravity distribution.

UTICA, 74,419.

THE CONSOLIDATED WATER CO. OF UTICA, N. Y. Supplies Deerfield, New Hartford, New York Mills, Oriskany, Whitesboro, & Yorkville. Office, 234 Genesee St.

Pres., R. U. Sherman.....Utica
V. Pres., W. S. Bacot..... "
Sec., R. W. Bacot..... "
Treas., F. C. Hopkins..... "
Mgr. & Engr. P'g. Sta.,
J. Herman Smith..... "
Chemist, Geo. C. Hodges..... "

Impounding reservoir & West Canada Creek, 550,000,000 gal.; chemical, liquid chlorine.

Pumps, 3-5,000,000 gal. Goulds driven by elec. motors, 100 kw. 3 ph. 60 cys. Westg. pumping to reservoirs & standpipe (1912) steel.

Pipe, 190 mi. 4 to 30 in. c. i.; hyd. 1370, hose con. 2½-in.; meters, 13,000 various; av. daily cons. 8,000,000 gal.; serv. con. 13,500; ord. pres. 40 to 100 lb., fire pres. same.

VICTOR, 881.

MUNICIPAL.

Vil. Pres., Edgar B. Case.....Victor
Vil. Clerk, W. F. Keating.....Victor
Supt., R. H. Brown..... "
Engr. P'g. Sta., C. E. Wilcox..... "
Chemist, Dr. Chas. A. Rowley..... "

Springs; ¼ mi. from center distribution.

Pumps, 1-260,000 gal. Goulds driven by gasoline engines, 9-hp. Ideal; elec. motor, 400 v. 3 ph. 25 cys. F. M.; pumping direct & to standpipe (1906) steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Ludlow; valves, 12 r. h. thd. Ludlow; meters, 150 Pittsburgh; av. daily cons. 25,000 gal.; serv. con. 150; ord. pres. 50 to 62 lb., fire pres. same.

Rates: meter, min. charge $6 year 30,000 gal., 20c. 1000 gal. max., 4c. min.

WARSAW, 3,206.

MUNICIPAL.

Comr., G. H. Forester.....Warsaw
" W. E. Webster..... "
Sec., C. H. Hain..... "
Supt., W. S. Gay..... "

Springs; 6 mi. from center business section; reservoirs, 3-1,500,000 gal.; no purification; gravity distribution.

Pipe, 24 mi. 4 to 12-in. c. i.; hyd. 100, hose con. 2½-in. Rensselaer; valves 50 l. h. opening Rensselaer; meters, 10 Hersey; serv. con. 1000; ord. pres. 120 to 150 lb.; fire pres. same.

Rates: flat, $3 year, closet $3; meter, 5c. 1000 gal.

WATERFORD, 6,345.

WATERFORD WATER WORKS CO.

Supt., H. B. Kerns.....Waterford

WATERLOO, 3,931.

WATERLOO WATER CO.

Pres., Wm. A. Wilcox.....Waterloo
Sec. & Treas., Wm. J. Wilcox..... "
Supt. & Engr. P'g. Sta., C. H. Ross "

Seneca River; ¼ mi. from center distribution; settling basin, 1,000,000 gal.; mech. filters, 1,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 hor. tubular 85-hp.; hand stoking; pumps, 2-1,000,000 gal. Worth.; pumping to elev. tank, 204,000 gal. steel.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 61, hose con. 2½-in. Ludlow; valves, 50 l. h. thd. Ludlow; meters, 25 Thomson; av. daily cons. 350,000 gal.; serv. con. 650; ord. pres. 50 to 68 lb., fire pres. 80 to 100 lb.

Rates: flat, $6 year, bath $3, closet $4; meter, min. charge $8 year, 25c. 1000 gal.

WATERTOWN, 26,730.

MUNICIPAL.

Pres. Comrs., John C. Knowlton, Watertown
Comr., H. E. Harmon..... "
" S. R. Cleveland..... "
" V. K. Kellogg..... "
" F. A. Hinds..... "
Supt., J. W. Phippen..... "
Cons. Engrs., Hazen & Whipple,
30 E. 42d St., New York City
Clerk, Fred W. Streeter.....Watertown
Chemist, Fred H. Jennings..... "

Black River; coagulating basin, 1,200,000 gal.; mech. filters, 750,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina, & soda ash.

Pumps, 4-10,000,000 gal. Worth. & 2 R. D. W. driven by water-turbines; pumping direct & to reservoir, 8,000,000 gal.

Pipe, 59 mi. 4 to 30-in. c. i.; hyd. 475, hose con 3-in. Norwood & Ludlow; valves, l. h. thd.; meters, 745 Thomson, Hersey, Pittsburgh & Neptune; av. daily cons. 5,250,000 gal.

Rates: flat, $4 year, bath $1, closet $2; meter, min. charge $6 year, 15c. 100 cu. ft. max., 2¼c. min.

WATERVLIET, 15,074.

WATERVLIET HYDRAULIC CO.

Pres., J. C. Chamberlain.....Watervliet
Sec. & Treas., H. M. Knapp.... "
Supt., V. S. Morehouse..... "

Mohawk River; 5 mi. from center distribution; slow sand filter, 4,000,000 gal.; chemicals, none.

Boilers, 2 hor. vert. 250-hp. Pinkerton & Bigelow; hand stoking; pumps, 3-8,000,000 gal. Goulds & Worth.; pumping to reservoir, 2-14,000,000 gal.

Pipe, 36 mi.; hyd. 160, hose con. 2½ & 4-in. Ludlow, Rensselaer; meters, 140 various; av. daily cons. 2,500,000 gal.; serv. con. 2800; ord. pres. 65 lb., fire pres. same.

WATKINS, 2,817.

MUNICIPAL.

Pres. Comrs., John M. Thompson.Watkins
Comr., H. L. Durland..... "
" J. W. Winters..... "
" M. B. Hughey..... "
" Geo. J. Magee..... "
Supt., Chas. E. Dennis..... "

Seneca Lake; one mi. from center distribution; no purification.

Boilers, 2 marine 150-hp. Fitzgibbons; hand stoking; pumps, 3-500,000 gal. Deane & Worth.; elec. motors, 45 kw. 1600 v. 2 ph. 60 cys. G. E.; pumping direct & to reservoir, 2-570,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 80, hose con. 2½-in. Michigan; valves, 106 r. & l. h. thd. various; meters, 550 Neptune & National; av. daily cons. 150,000 gal.; serv. con. 550; ord. pres. 90 lb., fire pres. 100 lb.

Rates: all meter, $3 1000 cu. ft. max., $1.20 min.

WAVERLY, 1,140.

MUNICIPAL.

Pres. Comr., A. Hildebrand.....Waverly
Comr., W. Merriam..... "
" Capt. T. Mills..... "
Supt., Fred F. Smith..... "

Impounding reservoirs, 2-315,000; one mi. from center distribution; no purification; gravity distribution.

Pipe, 14.3 mi. 4 to 12-in. c. i.; hyd. 68, hose con. 2½-in. R. D. W.; valves, 91 r. h. opening R. D. W.; meters, 400; av. daily cons. 600,000 gal.; serv. con. 1300; ord. pres. 70 to 87 lb., fire pres. same.

Rates: flat, $7, bath $4, closet $4; meter, min. charge $6 6 mo. 1600 cu. ft., 30c. 100 cu. ft.

WEEDSPORT, 1,344.

WEEDSPORT WATER CO.

Treas. & Supt.,
Geo. P. Harrington .....Weedsport
Sec., Silas Taber .....Auburn

Wells, 2 tubular 5-in. 58 & 75 ft. deep.

Pumps, 2 Rumsey driven by elec. motors, 5 & 7.5-hp. 220 v. 2 ph. 25 cys. G. E.; pumping direct & to reservoir, 2-600,000 gal. ea.

Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 23, hose con. 2½-in. mostly Eddy; valves, 43 l. h. thd. Chapman & Kennedy; meters, 15 Neptune & Buffalo; ord. pres. 62 to 65 lb., fire pres. same.

Rates: flat, $6 year, bath $4, closet $4, meters, min. charge $1 mo., $2.75 100 cu. ft. max., 40c. min.

WELLSVILLE, 140,382.

WELLSVILLE WATER CO. (Controlled by American Waterworks & Electric Co., 50 Broad St., New York, N. Y.)

Supt., John J. Cochran.....Wellsville

Wells on Genesee River, 9; no purification.

Boilers, 3 100-hp. McEwen; hand stoking; pumps, 2-1,500,000 gal. ea. Worth.; pumping direct.

Pipe, 14.55 mi. 4 to 12-in.; hyd. 77; av. daily cons. 560,000 gal.; serv. con. 1004; ord. pres. 85 to 90 lb., fire pres. 110 to 165 lb.

WESTFIELD, 2,985.

MUNICIPAL.

Comt., John F. Walsh.....Westfield
" Geo. D. Bates..... "
Supt., Andrew Burns..... "
Sec, J. A. Riley..... "

Springs; slow sand filters, 2 filtering 0.5 acres; gravity distribution.

Pipe, 35 mi. 4 to 12-in. c. i., hyd. 125, hose con. 2½-in. R. D. W.; valves, 100 l. h. opening Fairbanks; meters, 25 Pittsburgh & Buffalo; av. daily cons. 45,000 gal.; serv. con. 800; ord. pres. 80 to 100 lb., fire pres. same.

Rates: flat, $5 year, bath $3, closet $2.50; meter, min. charge $12 year 100,000 gal., 10c. 1000 gal. max., 6c. min.

WESTPORT, 692.

WESTPORT MOUNTAIN SPRING CO.

Mgr., H. P. Smith.....Westport
Treas., Thomas Lee, Jr..... "
Sec., Harry C. Patterson..... "
Supt., S. B. Eastman..... "

Westport Mountain Spring; 3 mi. from center distribution; reservoir, 10,000,000 gal.; no purification.

Gravity distribution; hyd. 21, hose con. 2-in. Eureka; meters, none; av. daily cons. 100,000 gal.; serv. con. 250; ord. pres. 125 to 132 lb., fire pres. same.

WHITEHALL, 4,917.
MUNICIPAL.
Supt., W. H. Harmon.....Whitehall

WHITESVILLE, 523.
WHITESVILLE WATER CO.
Supt., D. M. Robbins.....Whitesville
Treas., G. H. Chapin..... "
Sec., Wm. Ladd..... "
Collector, A. D. Howe..... "
Springs; no purification.
Gravity distribution from reservoir, 16 x 20 ft. deep.
Pipe, ½ mi. 4 to 12-in. c. i.; hyd. 15, hose con. 2-in.; valves, r. h. thd.; meters, none; serv. con. 100; ord. pres. 70 to 90 lb., fire pres. same.
Rates; flat, $5 year.

WHITNEY'S POINT, 744.
WHITNEY'S POINT WATER CO.
Sec., John Taber.....Whitney's Point
Treas. & Supt., Silas Taber " "
Springs; 3½ mi. from center distribution; no purification.
Gravity distribution from reservoirs, 3-500,000 gal.
Pipe, 6.25 mi. 4 to 12-in. c. i.; hyd. 21, hose con. 2½-in. Chapman & Darling; valves, 36 l. h. thd. Chapman & Ludlow; meters, 15 Neptune & Buffalo; av. daily cons. 55,000 gal.; serv. con. 216; ord. pres. 62 to 67 lb., fire pres. same.
Rates: flat, $6 year, bath & closet $10; meter, min. charge, $1 mo., $2.75 1000 cu. ft. max., 40c. min.

WILLIAMSON, 1,700.
MUNICIPAL.
Pres. Comr., R. M. Cheetham..Williamson
Sec. & Treas., A. F. DeHoud... "
Engr. P'g. Sta., Raymond Lund "
Lake Ontario; 4 mi. from center distribution; settling basins, 2; slow sand filters 500,000 gal. N. Y. C. Jewell; chemical, sulphate of alumina.
Pump, 1-504,000 gal. vert. triplex Rumsey 1914, 1-504,000 gal. hor. centrifugal Rumsey 1914 d. con. & belted to oil engine, two 6 & 40-hp. Mietz & Weiss 1914; pumping to reservoir 500,000 gal.
Pipe, 8 mi. 6 to 10-in. c. i.; hyd. 56, hose con. 3-in. Ludlow; meters, Pittsburgh; serv. con. 167; ord. pres. 35 lb., fire pres. 40 lb.
Rates: meters, min. charge $2.50 quarter 10,000 gal.

WINDSOR, *800.
MUNICIPAL.
Pres. Comr., J. E. Hurlburt.....Windsor
Comr., H. C. Pierce.....Windsor
Sec., Albert Man Warren..... "
Supt. & Comr., H. A. Barton..... "
Springs & well, 4-in. 88 ft. deep; 2 mi. from center distribution; reservoir, 60 ft. in diam. 9 ft. deep; no purification.
Pumps, 1-54,000 gal. triplex Goulds 1911 d. con. to elec. motor, 10-hp. 220 v. 3 ph. 60 cys. Westg. 1914; elec. energy from Afton-Windsor Heat, Light & Power Co.; pumping direct & to reservoir, above.
Pipe, 4 mi. 4 to 8-in.; hyd. 40, hose con. 2½-in.; valves, 16 r. h. opening; meters, 2 Neptune; serv. con. 160; ord. pres. 75 lb.
Rates: flat, $6 year; meter, 25c. 1000 gal.

WOLCOTT, 1,206.
MUNICIPAL.
Vil. Pres., B. T. Moore.....Wolcott
" Clerk, T. W. Knapp..... "
Supt., B. J. Churtain..... "
Spring & reservoir, 300,000 gal.; 2 mi. from center business section; no purification.
Pumps, 2-200,000 & 800,000 gal. hor. duplex F. M. & Goulds 1912 geared to elec. motor, 15 & 35-hp. 220 v. 3 ph. 25 cys. F. M. 1915; pumping to standpipe (1912) 120,000 gal.
Pipe, 6 mi. 6 to 10-in. c. i.; hyd. 57, hose con. 2½-in.; valves, 60 r. h. opening R. D. W.; meters, 280 Pittsburgh & Neptune; av. daily cons. 40,000 gal.; serv. con. 300; ord. pres. 50 to 60 lb., fire pres. 60 to 70 lb.
Rates: meter, min. charge $7.50 year 25,000 gal.

YONKERS, 79,803.
MUNICIPAL.
Comr., John A. Brady.....Yonkers
Supt., Edward L. Peene..... "
Chemist, W. H. Home..... "
Impounding reservoir on Saw Mill River & brooks, 1,000,000,000 gal.; 4 mi. from center distribution; slow sand filters, 6-10,000,000 gal.; chemical, hypochlorite of lime.
Boilers, 11 water-tube & hor. tubular 1100-hp. Erie & Atlas; hand stoking; pumps, 8-37,000,000 gal. Worth., Prescott, Snow & Wright; pumping to reservoirs, 2-64,000,000 gal., standpipe (1894) steel & elev. tank, 45,000 gal. steel.
Pipe, 150 mi. 4 to 30-in. c. i.; hyd. 1717, hose con. 2½-in. R. D. W.; valves, 1152 r. h. thd. Rensselaer; meters, 9582 various; av. daily cons. 8,500,000 gal.; serv. con. 9267; ord. pres. 30 to 135 lb., fire pres. same.
Rates: meter, 15c. 100 cu. ft.

NORTH CAROLINA

ALBEMARLE, 2,166.

MUNICIPAL.

Chmn. Comrs., A. F. Biles.....Albemarle
Comr., W. H. Snuggs..... "
" A. C. Heath..... "
City Clerk, E. L. Hearne..... "
Supt., B. F. Ansband..... "
Cons. Engr., Gilbert C. White....Charlotte

Long Creek; 2 mi. from center business section; coagulating basins, 70,000 gal.; slow sand filters, 65,000 gal.; mechanical filters, 65,000 gal.

Pumps, 2-1,080,000 gal. hor. centrifugal Buffalo 1912, driven by elec. motor, 75 kw. 2200 v. 3 ph. 60 cys. Hawthorne 1912, 1-1,728,000 gal. hor. centrifugal Buffalo 1912 d. con. & to elec. motors, 50-hp. 2200 v. 3 ph. pumping direct & to elev. tank (1912) 100,000 gal., Southern Power Co., steel.

Pipe, 5 mi. 6 to 10-in. c. i.; hyd. 47, hose; con. 2½-in.; valves, 25 r. h. opening; meters, 150 Gamon & Worth.; av. daily cons. 60,000 gal.; serv. con. 175; ord. pres. 60 lbs., fire pres. 100 to 150 lbs.

Rates: meter ,min. charge 50c. mo. 1000 gal.

ASHEVILLE, 18,762.

MUNICIPAL.

Mayor, J. C. Rankin.....Asheville
Chmn. Comrs., F. Stikelcather.... "
Supt., Wm. Francis..... "
Des. Engr., B. M. Lee..... "
Chemist, Dr. McCormick..... "

Swannanoa River; 20 mi. from center distribution; no purification.

Gravity distribution from reservoirs, ,000,000 gal. & standpipe (1886) iron.

Hyd. 364, hose con. 2½-in. Ludlow; valves, r. & l. h. thd. Ludlow; meters, 3500 various; av. daily cons. 2,500,000 gal.; serv. con. 400; ord. pres. 185 lb., fire pres. same.

Rates: meter, 20c. 1000 gal. max., 10c. min.

BESSEMER CITY, 1,529.

MUNICIPAL.

Chmn. Comrs., T. A. White. Bessemer City
Com., H. C. Froneberger.... " "
" R. L. Martin..... " "
" E. L. Froneberger.... " "
Clerk, F. L. Whitney..... " "
Supt., J. C. Vava..... " "
Cons. Engr.,
J. B. McCrary Co.....Atlanta, Ga.
Engr. P'g. Sta., Geo. Rowe..Bessemer City
Chemist, State Laboratory..Raleigh, N. C.

Springs and creek; 4.8 mi. from center business section; coagulating basins, 100,000 gal.; slow sand filters, 576,000 gal. filtering area 280 sq. ft.; chemical sulphate of alumina.

Pumps, 2-720,000 gal. hor. centrifugal Platt 1914, d. con. to elec. motors, 2 37 kw. 2300 v. 3 ph. 60 cys. Ft. Wayne 1914; elec. energy from Southern Power Co.; pumping to reservoir, 200,000 gal.

Pipe, 7 mi. 1 to 10-in. c. and w. i.; hyd. 36, hose con. 2½-in. Columbian; valves, 21 r. h. opening Crane; meters, 14 Worth.; av. daily cons. 30,000 gal. 100%; serv. con. 37; ord. pres. 65 to 82 lbs., fire pres. 65 to 125 lbs.

Rates: flat, $8, bath $8, closet $2; meter, min. charge $2 quarter 2,000 gal. 25c. 1000 gal. max., 16c. min.

BURLINGTON, 4,808.

MUNICIPAL.

Mayor, Z. E. Moore.....Burlington
Chmn. Comrs., W. W. Brown... "
Com., S. A. Steel..... "
" H. F. Barrett..... "
Supt. & Engr. P'g. Sta.,
E. J. McGuire..... "

Wells, 750 ft. deep.

Boilers, 3 return tubular 125-hp.; hand stoking; pumps, 1-1,440,000 gal. Worth., 2 Deane driven by elec. motors, 25, 50 & 100-hp. 2300 v. 3 ph. 60 cys. Westg.; pumping to elev. tank, 400,000 gal.

Hyd. 117, hose con. 2½-in. Glamorgan; meters, 1000 Pittsburgh; av. daily cons. 140,000 gal.; serv. con. 1800; ord. pres. 50 lb., fire pres. 100 lb.

CANTON, 1,393.

MUNICIPAL.

Chmn. Comrs., W. E. Sheffield.....Canton
Supt., J. C. Rickards..... "

Mountain stream; 5 mi. from center distribution; no purification.

Gravity distribution from reservoir, 778,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 38, hose con. 2½-in.; valves, 24 r. h. thd. Ludlow; av. daily cons. 200,000 gal.; serv. con. 250; ord. pres. 100 lb.

CARTHAGE, 833.

MUNICIPAL.

Comr., J. D. Barrett.....Carthage
Supt. & Engr. P'g. Sta.,
S. W. Shields..... "

Springs; 1.5 mi. from center distribution; impounding reservoir, 110,000 gal.; no purification.

Boiler, vert. 25-hp. Chattanooga; pumps, 2-432,000 gal. Platt, 1-288,000 gal. triplex driven by gasoline engine, 25-hp. F. M.; pumping to elev. tank, 60,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 38, hose con. 2½-in. Columbian; valves, 23 r. h. thd.; meters, 57 Worth.; av. daily cons. 18,000 gal.; serv. con. 57; ord. pres. 38 to 45 lb., fire pres. 38 to 50 lb.

Rates: all meter, min. charge, $1 mo., 40c. 1000 gal.

CHAPEL HILL, 1,149.

UNIVERSITY OF NORTH CAROLINA.

Supt., Chas. T. Woolen.....Chapel Hill
Des. Engr., P. H. Daggett..... " "
Engr. P'g. Sta., Jos. Sparrow... " "

Creek; 1.5 mi. from center distribution; reservoir, 100,000 gal.; settling basin, 150,000 gal.; slow sand filters, 500,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, 1-600,000 gal. D'Olier driven by elec. motor, 75-hp. 2200 v. 3 ph. 60 cys. Crocker-Wheeler; elec. energy from University Power Plant; pumping to standpipe (1897) steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 2½-in. Glamorgan; meters, none; av. daily cons. 200,000 gal.; serv. con. 200; ord. pres. 30 to 40 lb., fire pres. same.

CHARLOTTE, 34,014.

MUNICIPAL.

Mayor & Chmn. Comrs.,
Chas. A. Bland.....Charlotte
Comr., R. K. Blair..... "
" C. B. Bryant..... "
" H. H. Orr..... "
" E. S. Williams..... "
Supt., W. E. West..... "
Cons. Engr., Gilbert C. White.... "
Engr. P'g. Sta., W. W. Killough.. "
Chemist, Dr. H. P. Barrett..... "

Catawba River; 10.25 mi. from center distribution; impounding reservoir, 60,000,000 gal.; settling & coagulating basins, 1,500,000 gal.; mech. filters, 5,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 return tubular 120-hp. ea. Altman; hand stoking; pumps, 4-12,000,000 gal Worth. 2 steam & 2 driven by elec. motors, 150-hp. 550 v. 3 ph. Westg.; elec. energy from Southern Power Co.; pumping direct & to standpipe (1905) steel.

Pipe, 53 mi. 4 to 30-in. c. i.; hyd. 336, hose con. 2½-in. various; valves, r. h. opening R. D. W. & Crane; meters, 4950 Neptune, Worth., Hersey, Thomson & Gamon; av. daily cons. 1,626,000 gal.; serv. con. 4950; ord. pres. 45 to 95 lb., fire pres. 85 to 135 lb.

Rates: meter, min. charge 60c. mo. 1500 gal., 37c. 1000 gal. max., 7½c. min.

CONCORD, 8,715.

MUNICIPAL.

Mayor & Chmn. Comrs.,
A. F. Hartsell.....Concord
Comr., M. L. Cannon..... "
" C. B. Wagoner..... "
" Dr. W. D. Pemberton..... "
Supt., Sec. & Treas., L. A. Fisher.. "
Engr. P'g. Sta., W. T. Propst..... "

Cold Water Creek; 1½ mi. from center distribution; settling & coagulating basin, 100,000 gal.; slow sand filters, 800,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina & soda ash.

Pumps, 1-1,400,000 gal. Worth., 2-864,000 gal. ea. Buffalo d. con. to elec. motors, 3-148 kw. 2300 v. 3 ph. 60 cys. G. E. & Westg.; elec. energy from Southern Power Co.; pumping to standpipe (1902) 500,000 gal. steel.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 157, hose con. 2½-in. R. D. W.; valves, 62 r. h. thd. R. D. W.; valves, 575 Hersey, National & Union; av. daily cons. 250,000 gal.; serv. con. 625; ord. pres. 40 to 80 lb., fire pres. 87.5 lb.

DUNN, 1,823.

MUNICIPAL.

Mayor, G. K. Granthan.....Dunn
Comr., L. A. Tart..... "
" J. C. Bell..... "
" J. D. Banes..... "
" J. E. Wilson..... "
Vil. Clerk, H. S. McKay..... "
Supt., L. W. Bizzell..... "

Artesian well, 10-in. 380 ft. deep.

Boilers, 2 return tubular 150-hp. ea. 125 lb. Casey-Hedges, 1910 & 1914; pumps, 1-50,000 gal. hor. simple d. act. Knowles 1901 & 1-hor. simple d. act. F. M. 1913; air compressor, Clayton 1910; steam engines, 40-hp. Nagle 1914; pumping to elev. tank (1901) 50,000 gal.

Hyd. 78, hose con. 2½-in.; valves, 48 r. h. opening Glamorgan; meters, 100 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 100; ord. pres. 50 lb.

Rates: meter, min. charge $1 mo. 3000 gal.

DURHAM, 18,241.

THE DURHAM WATER CO.

Supt., J. C. Michie.....Durham
Asst. Supt., H. Bolton..... "

Impounding reservoir on Eno River, 12,000,000 gal.; 7 mi. from center distribution; settling and coagulating basin, 5,000,000 gal.; mechanical filters, 1,750,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Boilers, 4 hor. return tubular 200-hp. ea. & 2 100-hp. ea. Casey-Hedges, Erie, Robb, Mumford & Roberts; hand stoking; pumps, 3-8,000,000 gal. Platt, Moore & Bethlehem; pumping to reservoir, 200 ft. in diam. 14 ft. deep.

Pipe, 41.25 mi. 4 to 20-in. c. i.; hyd. 226, hose con. 2½-in. various; valves, 335 l. h. thd. Glamorgan; meters, 1625 National, Hersey; av. daily cons. 1,500,000 gal.; serv. con. 3500; ord. pres. 55 to 85 lb., fire pres. 85 to 120 lb.

EDENTON, 2,789.

MUNICIPAL. EDENTON ELECURIC LIGHT & WATER WORKS DEPT.

Chmn. Comrs., Thos. W. Elliott...Edenton
Sec., Miles G. Brown..... "
Mbr., Metrah Makley..... "
Supt., J. C. Martin..... "

Artesian wells, 2 tubular 8-in. 212 to 214 ft. deep; ½ mi. from center distribution.

Boilers, 2 return tubular 80 hp. Erie; hand stoking; pumps, 1-1,008,000 gal. Gardner; pumping to elev. tank, 60,000 gal. iron.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 44, hose con. 2½-in. Glamorgan; valves, 40 l. h. thd. Glamorgan; meters, 35 Buffalo, Her-

sey & Gamon; av. daily cons. 100,000 gal.; serv. con. 400; ord. pres. 35 to 45 lb., fire pres. 45 to 110 lb.

Rates: flat, $6 year, bath $3, closet $3; meter, min. charge, $1.50 quarter 400 cu. ft., 15c. 1000 gal. max., 10c. min.

ELIZABETH CITY, 8,412.

ELIZABETH CITY WATER & FIRE CO.
Pres., H. E. Crook.....Baltimore, Md.
V. Pres., C. W. Grice.....Elizabeth City
Sec. & Treas., Gen Mgr. &
Pur. Agt., R. E. Lewis.... " "
Cons. Engr., D. B. Bank...Baltimore, Md.
Engr. P'g. Sta.
C. A. Johnson.....Elizabeth City
Chemist, D. R. Kramer.... " "

Knobbs creek; one mi. from center business section; coagulating basins, 65,000 gal.; mechanical filters, 500,000 gal., Grier; chemical, sulphate of alumina, hypochlorite of lime and soda ash.

Boilers, 2 water-tube 250-hp. ea. 125 lb. Erie 1903, one water-tube 250-hp. 125 lb. 1905; pumps, 2-2,000,000 hor. simple d. act. c. & f. wh. 1912; pumping to standpipe (1912) 140,000 gal.

Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 28, hose con. 2½-in. Glamorgan & Columbian; meters, 30 various; av. daily cons. 350,000 gal.; serv. con. 540; ord. pres. 30 to 35 lb., fire pres. 110 lb.

Rates: flat, $4 quarter; meter, min. charge 50c. mo., 30c. 1000 gal. max., 10c. min.

FARMVILLE, 816.

MUNICIPAL.
Supt., H. L. Jones.....Farmville
Asst. Supt., L. P. Jones..... "

Wells, 6 tubular 6 & 8-in. 87 to 500 ft. deep; one mi. from center distribution; no purification.

Boilers, 2 100-hp. ea. W. & W.; hand stoking; pumps, 3-1,800,000 gal.; elec. motors, 75 kw. 220 v. 3 ph. 60 cys. Westg.; pumping to reservoir, 100,000 gal. & elev. tank, 65,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. Glamorgan; valves, 15 l. h. thd.; serv. con. 75; ord. pres. 55 lb., fire pres. 125 lb.

Rates: meter, 25c. 1000 gal.

FAYETTEVILLE, 7,045.

MUNICIPAL.
Supt., W. B. Jones.....Fayetteville

FOREST CITY, 1,592.

MUNICIPAL.
Mayor, L. C. Lowrance.....Forest City
Supt., R. O. Walton..... " "
Cons. Engrs., J. B. McCrary Co., Atlanta,

Floyd's Creek; one mi. from center distribution; settling & coagulating basins, 21,600 gal.; mech. filters, 260,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boiler, one fire-tube 100-hp. Cole; hand stoking; pump, 1-288,000 gal. Platt, 1-720,000 gal. Platt; elec. motor, 15 kw. 220 v. 2 ph. 60 cys. Ft. Wayne; pumping to elev. tank, 65,000 gal. steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 3-in. Chapman; valves, 14 r. h. thd. Crane; meters, 45 Worth., Pittsburgh & Crane; av. daily cons. 85,000 gal.; serv. con. 80; ord. pres. 40 to 52 lb., fire pres. 80 to 100 lb.

Rates: meter, min. charge 75c. mo. 3000 gal., 25c. 1000 gal. max., 6c. min.

GASTONIA, 5,759.

MUNICIPAL.
Mayor, C. B. Armstrong.....Gastonia
Chmn. Comrs., R. B. Babbington. "
Comr., M. F. Kirby..... "
" T. M. McIntire..... "
Supt. & Des. Engr., H. Rutter.... "
Engr. P'g. Sta., A. J. Hole..... "

Impounding reservoir on Long Creek, 7,000,000 gal.; 2.5 mi. from center distribution; settling tank, 60,000 gal.; mech. filters, 2-325,000 gal. ea.; chemicals, hypochlorite of lime & sulphate of alumina.

Boiler, hor. tubular 100-hp. Cole; hand stoking; pumps, 2-500,000 gal. steam Worth., 4-720,000 gal. Buffalo, 1-360,000 gal. Buffalo driven by elec. motors, 2000 v. 3 ph. 60 cys.; elec. energy from Spencer Mt. Mills Power Co.; pumping direct & to reservoir, 750,000 gal.

Pipe, 14.5 mi. 4 to 12-in. c. i.; hyd. 121, hose con. 2½ & 4-in. R. D. W. & Columbian; valves, 57 l. h. thd. R. D. W. & Columbian; meters, 713 Gamon & Union; av. daily cons. 400,000 gal.; serv. con. 825; ord. pres. 50 to 70 lb., fire pres. 80 to 100 lb.

Rates: all meter, min. charge $8 year, 25c. 1000 gal. max., 8c. min.

GRAHAM, 2,504.

GRAHAM WATER CO.
Pres., E. S. Parker.....Graham
V. Pres., J. H. Bridger..... "
Sec., Treas. & Supt.,
E. L. Henderson..... "
Engr. P'g. Sta., H. T. Taylor..... "

Wells, 2 tubular 8-in. 450 & 500 ft. deep.

Boilers, 2 return tubular 100-hp.; pumps, 1-120,000 gal. Platt; pumping to reservoir, 100,000 gal. & elev. tank, 75,000 gal. iron.

Hyd. 42, hose con. 2-in. Pittsburgh; valves, 12 l. h. thd. Pittsburgh; meters, Pittsburgh; av. daily cons. 75,000 gal.; serv. con. 120; ord. pres. 70 to 85 lb., fire pres. same.

GREENVILLE, 4,101.

MUNICIPAL. WATER & LIGHT COMMISSION.
Supt., & Pur. Agt., H. L. Allen, Greenville

Tar River; near center of business section; settling basins, 350,000; coagulating basins, 200,000 gal.; slow sand filters, 700.000 gal. Pittsburgh; chemical, sulphate of alumina.

Boilers, 3 hor. return tubular 150-hp. 125 lb. Cole 1903, one water-tube 525-hp. 180 lb. B. & W.; hor. comp. d. act

1903; 1-1,080,000 gal. hor. simple McGowan 1912 d. con. to elec. motor, 15-hp. 220 v. 3 ph. 60 cys. 1912; steam engines, 2, 150-hp. Harrisburg 1902; steam turbines, 1010-hp. De Laval 1914; standpipe (1903) 145,000 gal.

Pipe, 6 to 10-in. c. i.; hose con. 2-in. Glamorgan; valves, l. h. opening; av. daily cons. 325,000 gal., serv. con. 650; ord. pres. 48 to 52 lb., fire pres. 52 to 100 lb.

Rates: meter, min. charge $1 mo. 400 cu. ft. 25c. 100 cu. ft., max. 6c. min.

HAMLET, 2,173.

HAMLET WATER CO.

Pres. & Pur. Agt., W. R. Bonsal....Hamlet
Sec. & Treas., S. O. Bauersfeld..... "
Supt. & Engr.'s. P'g. Sta., J. L. Mears "

Marks Creek, 3 mi. from center business section; reservoir, 1,600,000 gal.; settling basins, 225,000 gal.; coagulating basins, 100,000 gal.; slow sand filters, 500,000 gal. Grear; chemical, sulphate of alumina and soda ash.

Boilers, 3 return tubular 100-hp. ea. 95-lb. Erie 1906 & 1907; 1-1,000,000 gal. hor. comp. Worth. 1907, 2-700,000 gal. hor. simple F. M. 1906, 3-1,200,000 gal. hor. comp. Worth. 1909, 1-800,000 gal. hor. centrifugal Worth. 1907, 1-500,000 hor. cen. Worth. 1906; pumping to reservoir, 250,000 gal. & standpipe (1907) 150,000 gal.

Pipes, 12 mi. 6 to 12-in. c. i.; hyd. 31, hose con. 2½-in. Glamorgan; valves, 12 r. h. opening Glamorgan; meters, 10 Worth. and Pittsburgh; av. daily cons. 200,000 gal. 90%; serv. con. 300; ord. pres. 98 lb. fire pres. 125 lb.

Rates: meter, min. charge $1.25 mo., 25c. 1000 gal.

HENDERSON, 4,503.

HENDERSON WATER CO.

Pres., J. W. Wood.....Henderson
V. Pres., A. C. Zallecoffer..... "
Sec., W. A. Hunt..... "
Treas. & Supt., J. H. Bridgers... "

Springs & impounding reservoir, 60,000,000 gal.; 2.5 mi. from center distribution; settling & coagulating basin, 80,000 gal.; mech. filters, 2-500,000 gal. ea.; chemical, sulphate of alumina.

Boilers, 2 return tubular 80-hp. ea. Tippett & Wood; hand stoking; pumps, 2-1,250,000 gal. Deane; pumping to standpipe (1891) steel.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 105, hose con. 2½-in. Ludlow; valves, 50 l. h. thd. Ludlow; meters, 500 Pittsburgh; av. daily cons. 500,000 gal.; serv. con. 550; ord. pres. 40 to 58 lb., fire pres. same.

Rates: meter, 26c. 100 cu. ft. max., 8c. min.

HIGH POINT, 9,525.

MUNICIPAL.

Supt., W. C. York.....High Pt.
Clerk, H. C. Sechrist..... " "
Engr. P'g. Sta., F. M. Johnson.... " "

Deep River & spring; reservoir, 3,000,000 gal.; settling basin, 500,000 gal.; coagulating basin, 700,000 gal.; slow sand filter, 1,000,000 gal., filtering area 448 sq. ft.; chemicals, sulphate of alumina & hypochlorite of lime.

Boilers, 2 125-hp. ea. 120 lb. Brownell 1902, 2 water-tube 150-hp. ea. 150 lb. Casey-Hedges 1914; pumps, 1-1,000,000 gal. comp. c. & f. wh. L-D-G. 1914, 2-600,000 gal. ea. hor. centrifugal High Pt. 1907, 1-1,000,000 gal. hor centrifugal Platt 1914 belted to elec. motors, 2 125-hp. ea. 2300 v. 3 ph. 60 cys. G. E. 1914; steam engines, 2 35-hp. ea. High Pt. 1907 & Greensboro 1914; elec. energy from Public Service Co., pumping to reservoir & elev. tank (1902) 150,000 grl. steel.

Pipe, 20.5 mi. 4 to 12-in. c. i.; hyd. 334, hose con. 2½-in. R. D. W.; valves, 270 l. h. opening R. D. W.; meters, 900 Gamon, Pittsburgh & Worth.; av. daily cons. 600,000 gal. 60%; serv. con. 1327; ord. pres. 60 to 75 lb., fire pres. 75 to 125 lb.

Rates: meter, min. charge 50c. mo. 1667 gal., 30c. 1000 gal. max., 10c. min.

HOT SPRINGS, 443.

MUNICIPAL.

Mayor, M. T. Price.....Hot Springs
Sec., Henry Fry..... " "

Mountain streams; one mi. from center business section; reservoir, 100,000 gal.; settling basins, 500,000 gal.

Distribution from standpipe (1912) 100,000 gal.; pipe, one mi. 6-in. c. i.; hyd. 12, hose con. 2-in.; valves, 10 r. h. opening Darling; meters, 18 Buffalo; av. daily cons. 60,000 gal.; serv. con. 76; ord. pres. 110 lb. fire pres. 90 lb.

Rates; flat, $3 mo.; meter, min. charge 75c. mo. 1000 gal.

KINGS MOUNTAIN, 2,218.

MUNICIPAL. Water & Light Department.

Supt., G. T. King.....Kings Mountain
Mayor, C. A. Dilling..... " "

Wells, 12 tubular 2-in. 40 to 80-ft. deep; 1.5 mi. from center business section; settling basins, 1-50,000 gal.

Pumps, 1-150,000 gal. belted to elec. motor, G. E. 1903, 2-200,000 gal. ea. hor. centrifugal d. con. elec. motor, Westg. 1906; elec. energy from Southern Power Co.; pumping to elev. tank (1906) 80,000.

Pipes, 6 mi. 4 to 8-in. c. i.; hyd. 98, hose con. 2½-in. Glamorgan; valves, 24; av. daily cons. 50,000 gal.; serv. con. 180; ord. pres. 70 to 110 lb., fire pres. same.

Rates: flat 60c. mo., bath 60c.; meter, min. charge 60c. mo. 2000 gal., 30c. 1000 gal. max. 10c. min.

KINSTON, 6,995.

MUNICIPAL.

Mayor, Fred I. Sutton.....Kinston
Comr., R. R. Rouse..... "
Supt., Jno. E. Weyher..... "
Engr. P'g. Sta., Albert Scott..... "

Artesian wells, 3 10-in. 400 ft. deep; ¾ mi. from center distribution; no purification.

Boilers, 4 return tubular 450-hp. Casey-Hedges; hand stoking; pumps, 2-1,000,000 gal. McGowan; pumping direct, to reservoir, 400,000 gal. & standpipe (1904) iron.

Pipe, 13.5 mi. 4 to 12-in. c. i.; hyd. 101, hose con. 2½-in. Herron; valves, 56 r. h. thd., meters, 600 Neptune & National; av. daily cons. 150,000 gal.; serv. con. 650; ord. pres. 45 to 50 lb., fire pres. 100 to 125 lb.

LENOIR, 3,364.

MUNICIPAL.

Mayor, B. F. Williams.....Lenoir
Comr., F. C. White..... "
" F. H. Coffey..... "
" F. H. Bawhill..... "
" J. H. Burt..... "
Supt., J. L. Cottrell..... "

Impounding reservoir, 15,000,000 gal.; 5 mi. from center distribution; no purification.

Gravity distribution from reservoir, 50,000 gal. & standpipe (1900) concrete.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 110, hose con. 2½-in. Pratt & Cady; valves, Fairbanks; meters, 400 Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 400; ord. pres. 72 to 185 lb.

LEXINGTON, 4,163.

MUNICIPAL. LEXINGTON WATER & LIGHT DEPT.

Mayor, Chas. Young.....Lexington
Treas., J. I. Headrick..... "
Supt., L. R. Hunt..... "

Artesian well, 8-in. 900 ft. deep; ½ mi. from center distribution; reservoir, 200,000 gal.

Pumps, 1-980,000 gal. Buffalo driven by elec. motor, 60-hp. 2300 v. 3 ph. 60 cys. Westg.; elec. energy from Southern Power Co.; air compressor, Clayton; pumping to standpipe, iron.

Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 58, hose con. 2½-in. Glamorgan; valves, 12 l. h. thd.; meters, 200 Pittsburgh; av. daily cons. 85,000 gal.; serv. con. 300; ord. pres. 65 to 80 lb., fire pres. 100 to 150 lb.

LINCOLNTON, 2,413.

MUNICIPAL WATER & LIGHT DEPARTMENT.

Supt., W. L. Kissler.....Lincolnton
Mayor, C. E. Child..... "

LOUISBURG, 1,775.

MUNICIPAL.

Chmn. Comrs., J. M. Allen.....Louisburg
Comr., D. J. Hicks..... "
" Dr. H. A. Newell..... "
Supt., Robt. C. Beck..... "
Engr. P'g. Sta., Geo. Mitchell.... "

Impounding reservoir on Tar River, 700,000 gal.; ½ mi. from center distribution; settling & coagulating basin, 20x20 ft.; slow sand filters, 216,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 fire-tube 125-hp. Cole; hand stoking; pumps, 1-100,800 gal. Worth.; pumping to standpipe (1904) iron.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 26, hose con. 3-in. Pratt & Cady; valves, 15 r. h. thd. Pratt & Cady; meters, 165 Union & Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 210; ord. pres. 50 to 85 lb., fire pres. 85 to 105 lb.

LUMBERTON, 2,230.

MUNICIPAL.

Supt. & Engr. P'g. Sta., W. G. Pitman.....Lumberton
Clerk & Treas., G. T. Page..... "

Lumber River; near center distribution; no purification.

Boilers, 2 hor. return tubular 100-hp. Schofield; hand stoking; pumps, 1-1,440,000 gal. Buffalo, 3-432,000 gal. Worth.; pumping to elev. tank, 66,000 gal. steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in. Rensselaer; valves, 14 l. h. thd. various; meters, 150 Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 236; ord. pres. 45 to 60 lb., fire pres. 120 to 150 lb.

Rates: meter, min. charge 75c. 5000 gal., 10c. 1000 gal.

MARION, 1,519.

MUNICIPAL.

Mayor, J. W. Streetman.....Marion
Clerk, J. W. Winhome..... "
Cons. Engr., Jos. B. Rider, 26 Broadway.....New York, N. Y.
Supt., H. H. Tate.....Marion

Mountain stream; 8 mi. from center distribution; slow sand filter, 300,000 gal.; chemicals, none.

Gravity distribution from reservoir, 300,000 gal.; pipe, 8 mi. 4 to 12 in. c. i.; hyd. 60, hose con. 2½-in. R. D. W.; valves, 48 r. h. thd. R. D.. W.; meters, 275 Pittsburgh & Neptune; av. daily cons. 200,000 gal.; serv. con. 275; ord. pres. 75 to 100 lb., fire pres. same.

Rates: meter, min. charge 75c. mo. 500 gal., 27c. 1000 gal.

MONROE, 4,082.

MUNICIPAL WATER & LIGHT DEPARTMENT.

Mayor, J. D. McRae.....Monroe
Chmn. Comr., D. C. Lee..... "
Sec., G. S. Lee, Jr..... "
Treas., C. L. Crowell..... "
Supt., W. H. Crow..... "
Engr. P'g. Sta., W. H. Derrell..... "

Boilers; 750-hp.

MOORESVILLE, 3,400.

MUNICIPAL.

Supt., J. L. Donald.....Mooresville
Des. Engr., Adlair Osborne..... "

Wells, 11 2-in. 100-ft. deep; no purification.

Pumps, 1-720,000 gal. Buffalo driven by elec. motor, 75 kw. 3200 v. 3 ph. 60 cys. Westg.; air compressor, Westg.; pumping to elev. tank, 100,000 gal. iron.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 64, hose con. 2½-in. Columbian; valves, 75 r. h.

thd. Columbian; meters, 100 Thomson; av. daily cons. 40,000 gal.; serv. con 100; ord. pres. 60 lb., fire pres. 150 to 180 lb.

Rates; all meter, min. charge, 60c. mo. 10,000 gal. 30c. 1000 gal. max., 20c. min.

MOREHEAD CITY, 2,039.

MUNICIPAL.

Comr., L. L. Leary.....Morehead City
Sec., M. L. Willis..... " "
Supt., C. Smith..... " "
Des. Engr., F. L. Royal.... " "
Engr. P'g. Sta.,J. D. Slyron.. " "

Artesian wells, five 6-in. 260 to 550 ft. deep; ¼ mi. from center business section.

Boilers two 100-hp. ea. 125 lb. Hardy-Tynes 1910; pumps, 2-720,000 gal. ea. comp. Worth. 1912; steam engine, 125-hp. Hardy-Tynes 1910; elec. motor, 125-hp. 250 v. 3 ph. F. M. 1910; pumping to standpipe (1912) 120,000 gal.

Pipes, 3 mi. 6 to 10-in. c. i.; hyd. 24, hose con. 2½-in. Fairbanks; valves, 12 l. h. opening; meters, 40 Gamon; av. daily cons. 30,000 gal. 100%; serv. con. 130, ord. pres. 35 to 52 lb., fire pres. 35 to 135 lb.

Rates; meter, 70c. 1000 gal. max., 35c. min.

MORGANTOWN, 1,712.

MUNICIPAL.

Town Mgr., R. W. Pepkin.....Morgantown
Supt. & Engr. P'g. Sta.,
F. J. Wortman..... "

Artesian wells, 6-in. 75 ft. deep; 1½ mi. from center distribution; no purification.

Boiler, one fire-tube 50-hp. Cole; hand stoking; pumps, 1-576,000 gal. Deane, 1-432,000 gal.; pumping to standpipe (1903) steel.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 51 hose con. 2½-in. Herron; valves, 24 r. h. thd. Herron; meters, 275 Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 300; ord. pres. 50 to 60 lb., fire pres. same.

Rates; flat, 80c. mo.; meter, min. charge, 80c. 1000 gal., 20c. 1000 gal. max., 10c. min.

MURPHY, 977.

MUNICIPAL.

Mayor, P. E. Nelson.....Murphy
Sec., P. C. Hyatt..... "
Supt., J. P. Phillips.....
Chemist, State Board of Health....Raleigh

Marble Creek and springs; 4 mi. from center business section; settling basins, 12x12x25 ft.; slow sand filters, 12x22x25 ft.; gravity distribution from reservoirs, 2.

Pipes, 7 mi. 8-in. c. i.; hyd. 50, hose con. 3-in. Rensselaer; valves, 25 r. & l. h. opening; meters, 130 Neptune; av. daily cons. 150,000 gal. 75%; serv. con. 150; ord. pres. 85 lb., fire pres. 85.

Rates; meters, min. charge 85c. mo. 3000 gal.

NEWBERN, 9,961.

MUNICIPAL. Newbern Water & Light Department.

Supt., H. H. Hodges.....Newbern
Engr. P'g. Sta., Bryant Hadlock..Newbern
Chemist, State Laboratory.....Raleigh

Wells, 11 tubular 6-in. 75-ft. deep; one mi. from center distribution; no purification.

Boilers, 2 water-tube 500-hp. Atlas, 2 return tubular 500-hp. H. S. G.; pumps, 2-500,000 gal. ea. Snow, 1-1,000,000 gal. Goulds; elec. motors, 75 hp. 2200 v. 3 ph. 60 cys. Ft. Wayne; pumping to standpipe (1894) steel.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Eddy; valves, 50 r. h. thd. Eddy; meters, 25 Pittsburgh, Worth., Hersey & Neptune; av. daily cons. 9,000,000 gal.; serv. con. 1258; ord. pres. 45 to 90 lb., fire pres. same.

Rates: flat, $1.50 quarter, bath $1, closet $1; meter, 25c. 1000 gal. max., 8c. min.

NEWTON, 2,316.

MUNICIPAL.

Sec., J. H. McLeeland.....Newton
Supt., W. R. Abernathy..... "

Wells, ten 2 to 3-in. 45 to 125 ft. deep; 1.2 mi. from center business section; no purification.

Pumps, 2-600,000 gal. ea. vert. triplex Platt 1908 geared to elec. motor, two 50 kw. ea. 220 v. 3 ph. 60 cys. Triumph 1908, 1-140,000 gal. vert. triplex Platt 1912 belted to elec. motor, 15 kw. 220 v. 3 ph. 60 cys. Westg. 1912; gasoline engine, 40-hp. New Era 1908; elec. energy from Southern Power Co.; pumping to elev. tank (1908) 75,000 gal. and reservoir, 100,000 gal.

Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 45, hose con. 2½-in.; valves, 20 l. h. opening; meters, 170 Pittsburgh; ord. pres. 80 to 125 lb., fire pres. same.

Rates; meters, min. charge $2.25 quarter 9000 gal., 25c. 1000 gal. max., 15c. min.

NORTH WILKESBORO, 1,902.

MUNICIPAL.

Comr., E. W. Troydon...North Wilkesboro
" A. A. Finley..... " "
Supt., D. S. Lane..... " "
Cons. Engrs.,
The J. B. McCrary Co.....Atlanta, Ga.
Engr. P'g. Sta.,
C. A. Mitchell.....North Wilkesboro
Chemist, State Laboratory of Hygiene.....Raleigh

Impounding reservoir on Reddies River; ¼ mi. from center distribution; chemical, sulphate of alumina.

Pumps, 2 Platt belted to elec. motors; pumping direct & to standpipe (1909) 117,000 gal. steel.

Pipe, 3 mi. 4 to 12-in. c. i.; valves, 20; meters, 200 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 300; ord. pres. 28 to 125 lb., fire pres. same.

Rates: meters, min. charge, 50c. mo., 15c. 1000 gal.

OXFORD, 3,018.

OXFORD WATER CO.

Pres. & Mgr., R. C. M. Calvert.....Oxford
Sec., A. H. Powell..... "

Treas., W. H. Hunt.....Oxford
Chemist, State Laboratory of Hygiene
Raleigh

Wells, 3 tubular 8-in 350 to 516 ft. deep; ½ mi. from center distribution; reservoirs, 2-40,000 gal.; chemical, copper sulphate.

Pumps, 3 deep well American, 1-6½ x 8 Goulds; 1-9 x 12 Goulds; gasoline engine, 20-hp. International, elec. motors, 220 v. 3 ph. 60 cys. G. E. & Westg.; elec. energy from Carolina Power & Light Co.; pumping to elev. tank, 100,000 gal. steel.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 64, hose con. 2½-in. Glamorgan; valves, 18 r. h. thd. Glamorgan; meters, 360 Pittsburgh; av. daily cons. 80,000 gal.; serv. con. 417; ord. pres. 50 to 60 lb., fire pres. same.

Rates: meter, 30c. 1000 gal. max., 15c. min.

RALEIGH, 19,218.

MUNICIPAL. Office, 115 West Morgan Street.

Mayor & Comr, James I. Johnson.Raleigh
Comr., R. B. Seawell..... "
Comr., D. G. King..... "
City Clerk, W. H. Sawyer..... "
Supt., E. B. Bain..... "
Engr. P'g. Sta., W. W. Robbins.... "
Chemist, State laboratory..... "

Impounding reservoir on Walnut Creek, 200,000,000 gal.; 2.5 mi. from center businesss ection; coagulating basins, 400,000 gal. mechanical filters, 3,500,000 gal. Tucker & Laxton of Charlotte; chemicals, hypochlorite of lime and sulphate of alumina, soda ash; air wash system, American Water Softener Company.

Boilers, 2 internally fired 125-hp. 125 lb. W. & W. 1900 & 1908, one marine 150-hp. 125 lb. Casey-Hedges 1912; hand stoking; 1-2,500,000 gal. hor. comp. d. act. Worth. 1903, 1-3,000,000 gal. hor. comp. d. act. McGowan 1907, 1-2,500,000 gal. hor. comp. c. & f. wh. Prescott 1914, 1-2,250,000 gal. hor. comp. d. act. McGowan 1910, 1-1,728,000 gal. hor. centrifugal Alberger 1914, 1-1,872,000 gal. hor. Alberger 1914 both d. con. to elec. motor, 20 & 25-hp. 220 v. 3 p 60 cys. G. E. 1914; elec. energy from Carolina Power & Light Co.; pumping direct and to elev. tank, 100,000 gal.

Pipes, 36 mi. 4 to 6-in. c. i.; hyd. 240, hose con. 2½-in. R. D. W. & Columbian; valves 34 r. & l. h. opening R. D. W. & Columbian; meters, 1050 Neptune; av. daily cons. 1,750,000 gal.; serv. con. 3 727; ord. pres. 40 to 50 lb., fire pres. 60 to 100 lb.

Rates: flat $1.75 quarter, bath $1, closet $1; meters, min. charge $2.25 quarter 9,000 gal.; 25c. 1000 gal. max. 7c. min.

RED SPRINGS, 1,089.

MUNICIPAL.

Supt., J. D. Callahan.....Red Springs
Mayor, J. D. McLean..... " "

REIDSVILLE, 4,928.

MUNICIPAL WATER & LIGHT PLANT.

Supt., P. S. Wray.....Reidsville
Engr. P'g. Sta. F. E. Murphy....Reidsville
Mayor, Francis Wolmack..... "

Boilers, 375-hp. H. F. & G.; steam engines, 200-hp. Skinner.

ROCKINGHAM, 2,155.

MUNICIPAL.

Supt., P. F. Perry.....Rockingham
Mayor, W. McNair..... "

ROCKY MOUNT, 8,051.

MUNICIPAL.

Mayor, L. F. Tillery.....Rocky Mount
Supt., A. S. Lyon..... " "
Cons. Engr., J. M. Ely.....Atlanta, Ga.
Engr. P'g. Sta., G. P. Womble..Rocky Mt,

Tar River; 1.5 mi. from center distribution; settling & coagulating basin, 225,000 gal.; mech. filters, 2-750,000 gal. ea.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Boilers, 3 water-tube 200-hp. Heine; hand stoking; pumps, 2-750,000 gal. ea. Platt, 1-2,500,000 gal. L-D-G; elec. motors, 2-220 v. 3 ph. 60 cys. G. E.; elec. energy from City lighting plant; pumping to standpipe (1899) steel.

Pipe, 16 mi. 4 to 14-in. c. i.; hyd. 125, hose con. 2½-in. Glamorgan; valves, 101 r. & l. h. thd. R. D. W.; meters, 800 Nepcune; av. daily cons. 600,000 gal.; serv. ton. 1448; ord. pres. 35 to 40 lb., fire pres. 80 to 125 lb.

Rates: flat, min. $2 quarter; meter, min. charge $2 quarter 400 cu. ft., 12½c. 100 cu. ft. max., 10c. min.

ROXBORO, 1,425.

MUNICIPAL.

Chmn. Comrs., J. M. O'Briant.....Roxboro
Comr., C. C. Cuningham..... "
Supt. & Engr. P'g. Sta.,
R. H. Gates..... "
Chemist, C. A. Shore.....Raleigh, N. C.

Wells; one mi. from center distribution.

Pumps, 2-28,800 gal. triplex driven by elec. motor, 220 v. 3 ph. 60 cys. G. E.; elec. energy from Roxboro Light & Power Co.; pumping direct & to standpipe (1908) iron.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. Eureka; valves, 15 l. h. thd. Glamorgan; meters, 230 Pittsburgh; av. daily cons. 25,000 gal.; serv. con. 325; ord. pres. 58 lb., fire pres. same.

Rates: flat, $1.50 quarter; meters, min. charge $1.50 quarter 6000 gal., 25c. 1000 gal.

RUTHERFORDTON, 1,062.

MUNICIPAL.

Supt., L. C. Gidney.....Rutherfordton
Des. Engr., B. P. Rucker.... "

Springs & reservoir, 50,000 gal.; no purification.

Pumps, 1-86,400 gal. Goulds driven by elec. motor, 3.75 kw. 110 v. 3 ph. 60 cys. Westg.; elec. energy from municipal lighting plant; pumping to standpipe (1912) w. i.

Pipe, 2.25 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 2½-in. Glamorgan; valves, 13 r. h. thd. Gen. Fire; meters, 73 Pittsburgh, Worth. & Gamon; av. daily cons. 10,000 gal.; serv. con. 74; ord. pres. 80 lb., fire pres. same.

Rates: all meter, min. charge 50c. mo., 25c. 1000 gal.

SALEM, 5,533.

SUPPLY FROM WINSTON-SALEM. See Winston-Salem.

SALISBURY, 7,153.

MUNICIPAL.

Supt., J. W. Meade.....Salisbury
Mayor, M. W. Woodson..... "

SANFORD, 2,282.

MUNICIPAL.

Chmn. Comr., J. E. Gregson.....Sanford
Supt., J. F. McKernan..... "

SELMA, 1, 331.

MUNICIPAL.

Mayor, W. F. Nordan.....Selma
Comr., C. P. Harper..... "
Supt. & Engr. P'g. Sta.,
K. L. Shipwash..... "

Wells, 2 tubular 6 & 10-in. 186 & 208 ft. deep; ½ mi. from center distribution.

Boilers, 100-hp. Brownell; hand stoking; pump, 2-266,400 gal. Goulds; elec. motors, 20-hp. 220 v. 3 ph. 60 cys. Westg.; pumping direct & to elev. tank. 65,000 gal.

Hyd., hose con. 2½-in.; av. daily cons. 15,000 gal.; serv. con. 74; ord. pres. 44 lb., fire pres. 280 lb.

SHELBY, 3,127.

MUNICIPAL.

Mayor, J. C. Smith.....Shelby
City Clerk, Geo. P. Webb..... "
Supt., W. W. Barron..... "

Broad River; reservoir, 100,000 gal.; slow sand filters, 1,000,000 gal. American Water Softener Co.; chemical, sulphate of alumina, salt & lime.

Boilers, return tubular 85-hp. 100 lb. 1905; pumps, 1-1,000,000 gal. comp. Platt 1905, 1-500,000 gal. hor. simple Platt 1905, 1-500,000 gal. hor. centrifugal Platt 1905 d. con. to elec. motor, 1-500,000 gal. hor. centrifugal Platt 1905 d. con. to elec. motor; steam engine, 15-hp. Platt 1905; elec. motor, 20 & 75-hp. 200 & 2000 v. 3 ph. 60 cys. Ft. Wayne, 1905, 7.5-hp. 200 v. 3 ph. 60 cys. Westg.; elec. energy from Southern Power Co.; pumping to standpipe (1905) 100,000 gal. iron, Cole Mfg. Co.

Pipes, 9 mi. 4 to 10-in. c. i.; hyd. 99, hose con. 2½-in. Columbian; valves, 50 r. h. opening; meters, 300 Pittsburgh; av. daily cons. 175,000 gal. 75%; serv. con. 400; ord. pres. 64 to 125 lb., fire pres. same.

Rates; meters, min. charge 75c. mo. 3000 gal. 25c. 1000 gal.

SMITHFIELD, 1,347.

MUNICIPAL.

Mayor, J. K. Wellons.....Smithfield
Chmn. Comrs., T. S. Ragsdall...Smithfield
Supt., O. P. Dickerson..... "

Neuse River; near center distribution; settling and coagulating basin, 22 ft. in diam. 14 ft. deep; mech. filters, 432,000 gal. Roberts; chemicals, sulphate of alumina & soda ash.

Pumps, 1-360,000 gal. Buffalo, 1-720,000 gal. Buffalo, 1-008,000 gal. Buffalo d. con. to elec. motors, 5 25 & 50-hp. 220 v. 3 ph. 60 cys. Ft. Wayne; elec. energy from Carolina Light & Power Co.; pumping to elev. tank, 100,000 gal. steel.

Pipe, 4.8 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 3-in. Columbian; valves, 64 r. h. thd. Chapman, meters, 162 Neptune; av. daily cons. 45,000 gal.; serv. con. 162; ord. pres. 53 lb., fire pres. 53 to 150 lb.

Rates: all meter, min. charge $1 3000 gal., 25c. 1000 gal.

SOUTHERN PINES, 542.

MUNICIPAL.

Mayor, R. E. Wiley.....SouthernPines
Supt., J. J. Farrey..... " "
Cons. Engr., Gilbert White.....Durham

Springs; 1.5 mi. from center distribution; settling, coagulating & aerating tank, 25 x 20 x 10 ft.; mech. filters, 432,000 gal. Roberts; chemicals, sulphate of alumina & soda ash.

Boilers, 40-hp.; pumps, 1-360,000 gal. F. M., 1-432,000 gal. Goulds; elec. motors, 25 & 35-hp. s. ph. 60 cys. Wagner; pumping direct & to elev. tank, 60,000 gal. iron.

Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 46, hose con. 4-in. Eureka, R. D. W. & Lynchburg; valves, 6 r. & l. h. thd.; meters, 263 various; av. daily cons. 120,000 gal.; serv. con. 262; ord. pres. 50 to 85 lb., fire pres. same.

Rates: meter, 35c. 1000 gal.

SPENCER, 1,915.

MUNICIPAL.

Comr., M. L. Kiser.....Spencer
Mayor, C. G. Theiling..... "
City Clerk, D. Fulk..... "
Supt., E. S. Blockwell..... "
Engr. P'g. Sta., Wm. Payton..... "
Chemist, State Laboratory.....Raleigh

Wells, tubular; near center of business section; reservoir 85,000 gal.

Pumps, driven by elec. motor, 25-hp.; pumping to standpipe (1905) 75,000 gal.

Rates: meters, min. charge $1.35 mo.

STATESVILLE, 4,599.

MUNICIPAL ELECTRIC LIGHT PLANTS.

Mayor, H. C. Grier.....Statesville
Sec. & Treas. Eugene Morrison.. "
Supt., J. G. Cochrin..... "

THOMASVILLE, 3,877.

MUNICIPAL.

Chmn. Comrs., J. A. Green....Thomasville
Comr., E. C. Lambert..... "
Sec., M. H. Stone..... "
Supt. & Engr. P'g. Sta.,
J. W. Mallard..... "
Cons. Engrs.,
The J. B. McCrary Co.....Atlanta, Ga.

Wells, 2 tubular 8 & 10-in. 850 & 876 ft. deep; one mi. from center distribution; reservoir, 220,000 gal.; no purification.

Pumps, 1-129,600 gal. Buffalo, 1-144,000 gal. Buffalo, 1-720,000 gal. Buffalo, 1-1,880,000 gal. Buffalo d. con. to elec. motors, 125 kw. 2200 v. 3 ph. 60 cys. G. E.; elec. energy from Southern Power Co.; air compressor, Ingersoll-Rand; pumping to elev. tank, 100,000 gal. steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 79, hose con. 2½-in. Glamorgan; valves, 50 r. h. thd. Crane; meters, 259 Pittsburgh; av. daily cons. 136,000 gal.; serv. con. 416; ord. pres. 50 to 64 lb., fire pres. 50 to 140 lb.

Rates: flat, 50c. mo.; meter, 30c. 1000 gal. max., 15c. min.

WADESBORO, 2,376.

MUNICIPAL.

Mayor, F. W. Dunlap.....Wadesboro
Chmn. Comrs., J. F. Allen..... "
Supt., T. C. Johnson..... "
Engr. P'g. Sta.,
John Richardson..... "
Chemist, State Board Hygiene.....Raleigh

Wells, 2 tubular 6-in. 190 to 210 ft. deep; ¾ mi. from center distribution.

Boilers, 2 return tubular 30 & 100-hp. Casey-Hedges; hand stoking; pumps, 1-1,080,000 gal. Platt, 1-1,080,000 gal. Worth., 1-180,000 gal. Worth.; air compressor, one elec. driven Clayton; elec. motors, 18.7 & 56 kw. 2200 v. 3 ph. 60 cys. Ft. Wayne; elec. energy from Yadkin River Power Co.; pumping to elev. tank, 75,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 26, hose con. 2½-in. Glamorgan; valves, 18 r. h. thd. Crane & Ludlow; meters, 243 Neptune, Pittsburgh & Gamon; av. daily cons. 45,000 gal.; serv. con. 318; ord. pres. 43 to 102 lb., fire pres. 86 to 145 lb.

Rates: flat, 50c. mo.; meter, min. charge, 50c. 1000 gal.

WAKE FOREST, 1,443.

WAKE FOREST WATER CO.

Supt., W. D. Halladay.....Wake Forest

WASHINGTON, 6,211.

MUNICIPAL.

Supt., H. B. Charles.....Washington
Mayor, F. Kugler..... "

WAYNESVILLE, 2,008.

MUNICIPAL. WAYNESVILLE WATER & LIGHT CO.

Mayor, C. H. Ray.....Waynesville
Supt. & Engr. P'g. Sta.,
Walter Hawk..... "

Rocky Branch; 6 mi. from center distribution; settling & coagulating basins, 250,000 gal.; slow sand filters, 500,000 gal.; chemical, sulphate of alumina.

Gravity distribution from reservoir, 500,000 gal.; hyd. hose con. 2½-in. Lynchburg; valves, 26 r. h. thd. Lynchburg; meters, 60 Neptune; av. daily cons. 500,000 gal.; serv. con. 450; ord. pres. 100 lb., fire pres. same.

Rates: flat, $5 year, bath $5, closet $5; meter, 12½c. 1000 gal.

WELDON, 1,999.

MUNICIPAL.

Mayor, W. W. Wiggins.....Weldon
Chmn. Comrs., W. T. Sloan..... "
Cons. Engr., W. C. Riddick..... "
Supt. & Engr. P'g. Sta., Z. Stringer "

Roanoke River; near center distribution; impounding reservoirs, 3,000,000 gal.; settling & coagulating basins, 50,000 gal.; slow sand filters, 423,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, 1-468,000 gal. Buffalo, 1-1,440,000 gal. Buffalo driven by elec. motors, 10 & 80-hp. 110 v. 3 ph. 60 cys.; elec. energy from Roanoke Development Co.; pumping to elev. tank, 80,000 gal. iron.

Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 4-in.; valves, 16 l. h. thd.; meters, 2 Neptune; av. daily cons. 100,000 gal.; serv. con. 200; ord. pres. 50 to 60 lb., fire pres. 100 to 150 lb.

Rates: flat, $6 year, bath $3, closet $3.

WILMINGTON, 25,748.

MUNICIPAL.

Mayor, T. O. Moore.....Wilmington
Supt., W. E. Merritt..... "
Engr. P'g. Sta.,
Jno. H. Sweeney..... "
Chmn., Geo. F. Catlett..... "

Cape Fear River; 1.5 mi. from center distribution; coagulating basins, 2-360,000 gal. ea.; mech. filters, 8-500,000 gal. ea.; chemicals, liquid chlorine & sulphate of alumina.

Boilers, 3 water-tube 150-hp. B. & W.; hand stoking; pumps, 1-4,000,000 gal. Worth., 1-2,500,000 gal. Worth., 1-2,000,000 gal. Worth., 1-1,500,000 gal. Worth., 1-2,000,000 gal. centrifugal Morris, 2-2,000,000 gal. Morris; pumping to reservoir, 1,125,000 gal. & elev. tank (1911) 145,000 gal. steel.

Pipe, 31.2 mi. 4 to 24 in. c. i.; hyd. 2145, hose con. 2½-in. Chapman & Columbian; valves, 302 r. h. opening Michigan; meters, 1450 various; av. daily cons. 2,800,000 gal.; serv. con. 5400; ord. pres. 65 to 75 lb., fire pres. 75 to 100 lb.

Rates: meter, 10c. 100 cu. ft., 6c. min.

WILSON, 6,717.

MUNICIPAL.

Supt., R. J. Grendham.....Wilson

WINSTON-SALEM, 22,700.

MUNICIPAL.

Mayor, O. B. Eaton.....Winston-Salem
Comr., G. E. Webb..... " "
" F. A. Fogle..... " "
Supt., T. L. Rawley..... " "
Chemist, Dr. C. A. Shore... " "

Impounding reservoirs on Salem & Frazier's Creek, 350,000,000 gal.; 3 mi. from

center distribution; settling & coagulating basins, 2,500,000 gal.; mech. filters, 2,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 5 fire-tube 675-hp. Cole & H. S. G.; hand stoking; pumps, 3-6,000,000 gal. McGowan & Platt; pumping to standpipe, 2 (1906) steel.

Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 350, hose con. 2½-in. R. D. W.; valves, 400 r. & l. h. thd.; meters, 1500 National & Pittsburgh; av. daily cons. 2,750,000 gal.; serv. con. 3750; ord. pres. 40 to 150 lb., fire pres. 150 lb.

Rates: meter, min. charge 50c. mo. 2,500 gal., 20c. 1000 gal. max., 8c. min.

NORTH DAKOTA

ABERCROMBIE, 299.
OWNED BY OSCAR TWETO.
Supt., Oscar Tweto.....Abercrombie
Artesian well; near center distribution; no purification.
Pumps, 1-464,000 gal. belted to gasoline engines, 10-hp.; pumping to reservoir, 10 ft. in diam. 25 ft. deep.
Pipe, 4 mi. 2-in. galv. i.; hyd. 6, hose con. 3-in.; meters, none; av. daily cons. 7500 gal.; ord. pres. 45 lb., fire pres. 200 lb.
Rates: flat, $1.50 mo.

BISMARCK, 5,443.
BISMARCK WATER SUPPLY CO.
Pres., A. McKenzie.....Bismarck
Sec., C. B. Little..... "
Supt., Geo. G. Doorley..... "
Missouri River; 2½ mi. from center distribution; no purification.
Pumps, 1,723,000 gal. triplex Aldrich belted to elec. motors, 600 kw. 2300 v. 3 ph. 60 cys. G. E.; pumping to reservoirs, 3-2,743,000 gal.
Pipe, 13.5 mi. 4 to 12-in. c. i.; hyd. 90, hose con. 2½-in. R. D. W. & Watrous; valves, 61 l. h. thd. Crane; meters, 602 various; av. daily cons. 300,000 gal.; serv. con. 9000; ord. pres. 35 to 65 lb., fire pres. same.
Rates: flat, $3 quarter, bath & closet $2; meter, 37½c. 100 cu. ft. max., 30c. min.

CANDO, 1,322.
MUNICIPAL.
Supt. & Engr. P'g. Sta., A. H. Lean..Cando
Wells, 5 ft. in diam. with six 2-in. 65 ft. deep; ½ mi. from center business section.
Pumps, 1-86,400 gal. F. M. driven by gas engine, 8-hp. F. M.; pumping direct & to elev. tank, 14,000 gal. wood.
Hyd. 22, hose con. 2½-in. Bourbon; valves, 12 r. & l. h. thd. Bourbon; meters, 150 Buffalo; av. daily cons. 20,000 gal.; serv. con 160; ord. pres. 40 to 45 lb., fire pres. 50 lb.
Rates: meter, min. charge 50c. mo., 10c. 100 gal.

CARRINGTON, 1,217.
MUNICIPAL.
Mayor, J. O. Robertson.....Carrington
City Treas., H. A. Weld..... "
" Audr., H. L. Winterer..... "
Supt., Carl Nelson..... "
Des. Engr., G. W. Weinmiller... "
Springs & wells. 20 ft. in diam. 35 ft. deep; 3.5 mi. from center distribution; no purification.
Pump, 1-432,000 gal. driven by gasoline engines, 15-hp. F. M.; pumping direct & to standpipe (1908).
Hyd. 50, hose con. 2½-in. Waterous; av. daily cons. 30,000 gal.; serv. con. 80.
Rates; meter, ½c. cu. ft. max., ¼c. min.

DEVILS LAKE, 5,157.
DEVILS LAKE IMPROVEMENT CO.
(Owned by Western Utilities Co.)
Mgr., Frank E. Carson.....Fargo

EDGELEY, 749.
MUNICIPAL.
Mayor, R. W. Hall.....Edgeley
Vil. Clerk, Emmett McKenna..... "
Supt., C. S. Rygh..... "
Engr. P'g. Sta., Nels Strom..... "
Artesian wells, 4-in. 1400 ft. deep; 600 ft. from center business section; reservoir, 50,000 gal.; no purification.
Pumps, 2-1,800,000 gal. hor. centrifugal geared to gas engines, 2 25-hp. ea. F. M. 1906; pumping direct & to reservoir, 50,000 gal.
Hyd. 4, hose con. 2½-in.; fire pres. 110 to 140 lb.

ELLENDALE, 1,389.
MUNICIPAL.
Mayor, A. E. Miller.....Ellendale

ENDERLIN, 1,540.
MUNICIPAL.
Mayor, G. A. Nelson.....Enderlin
City Clerk, G. S. Matteson..... "
Supt., A. E. Shaw..... "
Well, 14 ft. in diam. 16 ft. deep; ½ mi. from center business section.
Boilers, one hor. tubular 120-hp. 125 lb. Kellogg 1912, one hor. tubular 90-hp. 125 lb. Penn 1909; hand stoking; pumps, 1-2,016,000 gal. vert. duplex 1909 belted to steam engines, 75-hp. Skinner 1909 & 125-hp. Allis 1911; pumping to standpipe (1913) 135,000 gal.
Pipe, 3.5 mi. 4 & 6-in. c. i.; hyd. 49, hose con. 3-in. St. Paul; valves, 20 r. h. opening Clow; meters, 135 Neptune; av. daily cons. 5000 gal. 90%; serv. con. 135; ord. pres. 45 lb., fire pres. 125 to 150 lb.
Rates: meter, min. charge 50c. mo. 1500 gal., 35c. 1000 gal.

FARGO, 14,311.
MUNICIPAL.
Chmn. Comrs., R. D. Blakemore.....Fargo
Supt. & Des. Engr., Frank L. Anders "
Ch. Engr. P'g. Sta., John Thomson.. "
City Auditor, A. R. Watkins..... "
Red River; near center distribution; settling & coagulating basins, 2-100 x 150 x 14 ft.; mechanical filters, 4,000,000 gal.; chemicals, hypochlorite of lime, sulphate of iron, lime & soda ash.
Boilers, 3 water-tube 150-hp. Milne; hand stoking; pumps, 1-4,000,000 gal. Allis-C., 1-6,000,000 gal. Worth.; pumping direct.
Pipe, 36 mi. 4 to 30-in. c. i.; hyd. 400, hose con. 2½-in. Ludlow & Waterous; valves, 1000 l. h. thd.; meters, 500 Hersey; av. daily cons. 2,500,000 gal.; serv. con. 2700; ord. pres. 50 lb., fire pres. 100 lb.
Rates: meter, 15c. 1000 gal.

GRAFTON, 2,229.
MUNICIPAL.
Mayor, A. McConvill.....Grafton.
Supt., Carl H. Smith..... "
Audr., J. H. Johnson..... "

Artesian well, 2 4½ & 6-in. 300 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 hor. tubular 280-hp. Williams; hand stoking; pumps, 2-72,000 gal. ea. Gorden & Maxwell; pumping direct.

Pipe, 1.5 mi. 4 to 12-in. c. i.; hyd. 18, hose con. 2½-in. Holly, Waterous & R. D. W.; valves, 6 l. h. thd. Holly; meters, none; serv. con. 36; ord. pres. 8 to 10 lb. fire press. 80 to 120 lb.

GRAND FORKS, 12,478.
MUNICIPAL.
Supt. & City Engr., J. J. Smith.Grand Forks
Chemist, Dr. Raver..... " "

Red Lake River; one mi. from center distribution; settling & coagulating basins, 4-1,495,000 gal.; mechanical filters, 2,000,000 gal.; clear water basins, 1,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 3 water-tube 550-hp. Heine, 2 Scotch Marine 150-hp. ea.; hand stoking; pumps, 1-2,500,000 gal. vert. North Star, 1-3,000,000 gal. hor. Holly, 1-3,000,000 gal. centrifugal Platt, 1-1,000,000 gal. Blake, 1-3,000,000 gal. centrifugal Cameron; elec. motor, 75-hp. 2200 v. 3 ph. 60 cys. Westg.; pumping direct.

Pipe, 27 mi. 4 to 16-in. c. i.; hyd. 320, hose con. 2½-in. Ludlow, South Park, R. D. W. & Eddy; valves, 260 r. h. opening Eddy & Ludlow; meters, 1808 Hersey; av. daily cons. 950,000 gal.; serv. con. 2300; ord. pres. 40 lb., fire press. 75 to 180 lb.

Rates: flat, 75c. mo.; meter, 50c. 1000 gal. max., 15c. min.

HARVEY, 1,443.
MUNICIPAL.
Supt., C. R. Cummings.....Harvey

Cheyenne River; pumping by the Railroad Co.; pumping to elev. tank (1909) 65,000 gal. wood & steel.

Pipe, 2.5 mi. 6 & 8-in. c. i.; hyd. 48, hose con. 2½-in. Waterous; valves, 7 r. h. opening; meters, 210 Neptune; av. daily cons. 29,000 gal.; serv. con. 220; ord. pres. 40 lb., fire pres. 120 lb.

Rates: meter, $2.50 quarter 3000 gal.; 15c. 1000 gal.

HILLSBORO, 1,237.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS-COMMISSION.
Comr., E. R. Sarles.....Hillsboro
Sec., M. Nyhus..... "
Supt., C. S. Christianson..... "

Wells, 10 2½ to 8-in. 90 ft. deep; 1.5 mi. from center business section.

Pumps, 1-144,000 gal. vert. triplex Platt 1908 belted to gas engine, 7-hp. Otto 1908; pumping to elev. tank (1901) 75,000 gal. wood & steel

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 35, hose con. 2½-in. Waterous; valves, 20 l. h. opening; meters, 125; av. daily cons. 15,000 gal. 55%; serv. con. 125; ord. pres. 45 to 50 lb., fire pres. same.

Rates: meter, 75c. 100 cu. ft.

JAMESTOWN, 4,358.
MUNICIPAL.
Chmn. Comrs., Wm. Hall.....Jamestown
Comr., Wm. Ringuett..... "
" John O'Brien..... "
Supt., Burt Kennison..... "
Engr. P'g. Sta., H. Augsturber.. "

Wells, 4 6-in. 60 ft. deep; ½ mi. from center business section.

Pumps, 1-504,000 gal. vert. triplex Rumsey, 1-1,600,000 gal. vert. centrifugal Morris d. con. to elec. motors, 35 & 100-hp. 200 & 220 v. 3 ph. 60 cys. Western; elec. energy from Western Elec. Co.; pumping to standpipe, 130,000 gal. & direct.

Pipe, 34 mi. 4 to 10-in. c. i.; hyd. 75, hose con. 2½-in. Waterous & Eddy; valves, 73 r. & l. h. opening Eddy & Crane; meters, 450 Neptune & National; av. daily cons. 100,000 gal. 100%; serv. con. 450; ord. pres. 40 to 55 lb., fire pres. 55 to 100 lb.

Rates: meter, min. charge $2 8000 gal., 15c. 1000 gal. max., 6c. min.

LISBON, 1,758.
MUNICIPAL.
Supt., A. L. Clubine.....Lisbon

Artesian wells, 4; 1.5 mi. from center distribution.

Gravity distribution from elev. tank, 235,000 gal. iron; pipe, 3 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Waterous; valves, 35 r. & l. h. thd. Waterous; meters, none; av. daily cons. 158,000 gal.; serv. con. 300; ord. pres. 45 to 70 lb., fire pres. same.

LITCHVILLE, 484.
MUNICIPAL.
Pres. Trustees, H. O. Hanson.....Litchville
Engr. P'g. Sta., Sam Amundson.. "

Artesian well, 4-in. 1150 ft. deep; near center business section; no purification.

Pumps, 1-252,000 gal. hor. single Goulds 1914 geared to gas engine, 12-hp. International 1914; pumping direct & to reservoir, 50,000 gal.

Pipe, one mi. one to 6-in. galv. i.; hyd. 7, hose con. 2½-in.; valves, r. h. opening; av. daily cons. 15,000 gal.; serv. con. 100; ord. pres. 15 to 75 lb., fire pres. 50 to 100 lb.

Rates: flat, $9 year.

MANDAN, 3,876.
MUNICIPAL.
City Audr., W. H. Seitz.....Mandan
Supt. & Engr. P'g. Sta.,
F. G. Tharp..... "
Cons. Engrs.,
Burns & McDonnell...Kansas City, Mo.

Missouri River; 1.5 mi. from center distribution; settling basins, 481,000 gal.; chemicals, none.

Boilers, 2 hor. return tubular 120-hp. Skinner; hand stoking; pumps, 2-720,000 gal. d. con. to gasoline engine, 120-hp. Skinner & elec. motors, 2300 v. 3 ph. 60 cys. Skinner; pumping to reservoir, 585,000 gal.

Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 47, hose con. 3-in.; valves, 47 r. h. thd.; meters, 300 National & Neptune; av. daily cons. 40,000 gal.; serv. con. 300; ord. pres. 70 to 75 lb., fire pres. same.

Rates: meter, min. charge $1 mo. 2500 gal., 40c. 1000 gal. max., 15c. min.

MAYVILLE, 1,070.

MUNICIPAL ELECTRIC LIGHT & WATERWORKS.

Mayor, Geo. O. Stomner.....Mayville
City Audr., T. O. Vangen..... "
Mgr., Albert Borget..... "

MILNOR, 641.

MUNICIPAL.

City Audr., Otto Miller.....Milnor

Artesian wells, 4-740 ft. deep; gravity distribution from wells; pipe, 2 mil. 2-in. galv. i.; ord. pres. 85 to 125 lb., fire pres. same.

MINOT, 6,188.

MUNICIPAL.

Supt., Ole Knudson.....Minot

NEW ROCKFORD, 1,575.

MUNICIPAL.

Chmn. Comrs.,
S. M. Putnam.....New Rockford
Sec., W. C. Dresser..... " "
Cons. Engr., T. R. Atkinson.....Bismarck

Wells, 3 6-in. 85 ft. deep; one mi. from center business section.

Pumps, 1-360,000 gal. centrifugal American 1915, 1-1,080,000 gal. American 1915 both d. con. to elec. motors, 7.5-hp. Sprague 1915, 75-hp. Sprague 1915; elec. energy from Western Utilities of Fargo; pumping to reservoir, 100,000 gal. & standpipe (1915) 75,000 gal.

Pipe, 5 mi. 6 to 10-in. c. i.; hyd. 40, hose con. 2½-in.; ord. pres. 40 lb., fire pres. 100 lb.

OAKES, 1,495.

MUNICIPAL.

Vil. Pres., V. W. Slocum.....Oakes
Vil. Audr., F. R. Whitney..... "

Artesian wells, 3 3 & 6-in. 1200 ft. deep; no purification.

Pumps, 1-520,000 gal. hor. tri. exp. d. act.; elec. energy from Oakes Light & Power Co.; pumping direct.

Meters, none; av. daily cons. 300,000 gal.; serv. con. 150; ord. pres. 40 lb., fire pres. 80 to 150 lb.

PARK RIVER, 1,008.

MUNICIPAL.

Chmn. Comrs., E. Herwick.....Park River
Comr., A. White.....Park River
" Dr. R. J. Church..... " "
Supt., A. E. Mullineaux..... " "
Engr. P'g. Sta., A. Wakeford... " "

Wells, 2 10 & 20 ft. in diam. 32 ft. deep; one mi. from center distribution.

Boilers, 2 fire-tube 100-hp. Williams; hand stoking; pumps, 1-720,000 gal. Canton; pumping direct & to elev. tank, 40,000 gal. wood.

Pipe, 2 mi. 4 & 6-in. c. i.; hyd. 13, hose con. 2½-in. Waterous; meters, 149 Buffalo; av. daily cons. 10,000 gal.; serv. con. 150; ord. pres. 43 to 60 lb., fire pres. 43 to 90 lb.

Rates: all meter, 10c. 100 gal.

RUGBY, 1,620.

MUNICIPAL

Mayor, H. J. Bjornstael.....Rugby
Chmn. Comrs., G. W. Brundage.... "
Comr., Oscar A. Spillun..... "
" John Kelsvig..... "

Well, 8 x 18 ft. 31 ft. deep; near center distribution.

Pump driven by gasoline engine, 8 & 10-hp. Waterous & F. M.; pumping to elev. tank (1907) 52,000 gal. wood.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 23; hose con. 2½-in. Waterous; valves, r. h. thd.; meters, 17 Standard; av. daily cons. 30,000 gal.; serv. con. 70; ord. pres. 55 to 70 lb., fire pres. same.

VALLEY CITY, 4,606.

MUNICIPAL LIGHT & WATERWORKS.

Supt., O. M. Bergman.....Valley City
Engr., S. Stevenson..... " "

Boiler, 510-hp. Sterling; steam engine, 600-hp. Erie.

WASHBURN, 657.

MUNICIPAL.

Mayor, C. G. Forbes.....Washburn
Chmn. Comrs., W. J. Bickert.... "
City Audr., L. R. Burgum..... "
Supt., F. J. Thompson..... "

Missouri River; ½ mi. from center distribution; settling basins, 2-50,000 gal.; chemicals, none.

Pumps, 2-300,000 gal. Waterous driven by gasoline engines, 2 20-hp. Waterous; pumping to elev. tank. 50,000 gal. wood.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 15, hose con. 2½-in. Eureka; meters, 60; av. daily cons. 15,000 gal.; serv. con. 60; ord. pres. 60 lb., fire pres. same.

Rates: all meter, 60c. 1000 gal.

WILLISTON, 3,124.

MUNICIPAL.

Pres. Comrs., Thomas Craven....Williston
Comr., John Bruzger..... "
" Joe Wigley..... "
Supt. & Engr. P'g. Sta.,
C. C. Mackenroth..... "

Missouri River; settling & coagulating basins, 3-500,000 gal.; slow sand filters, 3-360,000 gal.; chemical, sulphate of alumina.

Boilers, 4 hor. return tubular 300-hp. Milwaukee; hand stoking; pumps, 3-1,080,000 gal. Platt; elec. motors, 240 kw. 220 v. 3 ph. 60 cys. G. E.; elec. energy from U. S. Reclamation Service; pumping direct & to standpipe, steel.

Pipe, 7 mi. 4 to 12 in. c. i.; hyd. 74, hose con. 2½-in. Waterous; valves, 46 r. h. thd. Eddy; meters, 400 National, Worth., & Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 800; ord. pres. 50 to 60 lb., fire pres. 100 to 130 lb.

■ Rates: flat, $12 year; meter, 10c. 100 gal. max., 2c. min.

OHIO

ADA, 2,465.
ADA WATER, HEAT & LIGHT CO.
Pres., C. S. Ames ..... Ada
V. Pres., Chas. Bosler..... "
Treas., Justus Brown..... "
Sec. & Gen. Mgr., Chas. Wood..... "
Wells, 4 tubular 8-in. 170-ft. deep; ½ mi. from center distribution; no purification.
Boilers, 4 return tubular 150-hp. ea. Brownell; hand stoking; pumps, 2-75,000 gal. Deane; pumping direct.
Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 13, hose con. 4-in.; valves, 10 r. h. thd. Bourbon; meters, 160 Gamon; serv. con. 451; ord. pres. 50 to 100 lb., fire pres. same.
Rates: flat, $5 year, closet $3; meter, 25c. 1000 gal.

AKRON, 69,067.
MUNICIPAL.
Dir. Pub. Serv., C. P. Parker.....Akron
Supt., Harry H. Frost..... "
Cons. Engrs., Barbour & Bradbury,
1120 Tremont Bldg., Boston, Mass.
Ch. Engr. P'g. Sta.,
John H. Newstetter.....Akron
Impounding reservoir on Cuyahoga River, 2,385,800,000 gal.; 10.5 mi. from center distribution; settling & coagulating basins, 20,000,000 gal.; mech. filters, 20,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.
Boilers, 2 hor. water-tube 200-hp. Union; hand stoking; pumps, 2-15,000,000 gal. ea. Tod, 1-3,000,000 gal. Tod, 1-15,000,000 gal.; pumping to reservoir, 20,000,000 gal.
Pipe, 180.5 mi. 4 to 36-in. c. i. & steel; hyd. 843, hose con. 2½-in. various; valves, 1700 r. h. opening Rensselaer, Ludlow & Roe-Stephens; meters, 4600 Hersey; av daily cons. 10,500,000 gal.; serv. con. 18,000; ord. pres. 25 to 130 lb., fire pres. same.
Rates: flat, $5.625 year, bath $2.50, closet $2.50; meter, min. charge 75c. mo., $1 1000 cu. ft. max., 50c. min.

ALLIANCE, 15,083.
MUNICIPAL.
Dir. Pub. Serv., James I. Rickard..Alliance
Supt., L. A. Tonkle..... "
Cons. Engrs., Chester & Fleming,
Union Bank Bldg., Pittsburgh, Pa.
Chemist, C. A. Carpenter.....Alliance
Mahoning River & wells, 5 tubular 8-in. 80-ft. deep; settling & coagulating basins, 900,000 gal.; mech. filters, 6-1,000,000 gal. ea.; chemicals, hypochlorite of lime & sulphate of alumina.
Boilers, 2 water-tube 250-hp. ea. Wickes, 2 water-tube 250-hp. ea. McNaull; natural gas fuel; pumps, 1-5,000,000 gal. Prescott, 1-4,000,000 gal. Worth., 1-2,000,000 gal. Worth., 1-61,000,000 gal. centrifugal De Laval driven by elec. motor, 50-hp. 220 v. 3 ph. 60 cys. Westg.; pumping direct & to standpipes, 2 (1890, 1913) iron.
Pipe, 37 mi. 4 to 16-in. c. i.; hyd. 350, hose con. 2½-in. Eddy; valves, 300 l. h. thd. Eddy; meters, 200 various; av. daily cons. 4,500,000 gal.; serv. con. 3500; ord. pres. 25 to 110 lb., fire pres. 40 to 125 lb.
Rate: flat, $4 year, bath $2, closet $4; meter, 15c. 1,000 gal. max., 5c. min

AMHERST, 2,106.
AMHERST WATERWORKS CO.
Sec. & Treas., Jacob Ans.....Amherst
Buy water from Elyria Waterworks.

ARCANUM, 1,361.
MUNICIPAL.
Pres. Comrs., S. S. Miller.....Arcanum
Comr., J. O. May..... "
Comr., J. F. Drake..... "
Clerk, W. S. Taylor..... "
Supt., C. C. McCod..... "
Engr. P'g. Sta., Harry Albright.... "
Wells; ½ mi. from center distribution.
Boilers, 2 hor. tubular 70-hp. Brownell; hand stoking; pumps, 2-750,000 gal. comp. duplex McGowan; pumping direct.
Pipe, 4.7 mi. 4 to 12-in. c. i.; hyd. 39, hose con. 2½-in. Bourbon; valves, 30 r. h. thd. Bourbon; meters, none; av. daily cons. 62,000 gal.; serv. con. 345; ord. pres. 40 to 60 lb., fire pres. 70 to 100 lb.
Rates: flat, $5 year, bath $2, closet $2; meter, min. charge $12 year, 10c. 1,000 gal.

ARCHBOLD, 1,082.
MUNICIPAL.
Vil. Clerk, J. H. Fagley.....Archbold
Cons. Engr., Geo. Champe.....Toledo, O.
Wells, 2 160-ft. deep; 1000 ft. from center distribution.
Pumps, 1-72,000 gal. Keystone, 1-72,000 gal. Cook driven by elec. motors, 4 kw. 220 v. 3 ph. 25 cys. G. E.; pumping to elev. tank, 60,000 gal. steel.
Pipe, 2.75 mi. 4 to 12-in. c. i.; hyd. 26, hose con. 2½-in. Eddy; valves, 20 r. h. thd. Eddy; ord. pres. 40 lb.

ARLINGTON HEIGHTS, 468.
Supply from Wyoming.

ASHLAND, 6,795.
MUNICIPAL.
Dir. Pub. Serv., Fred Edwards. ...Ashland
Supt., O. K. Brown..... "
Engr. P'g. Sta., E. L. Clark..... "
Wells, 10 tubular 8&10-in. 33 to 37 ft. deep; one mi. from center distribution; no purification.
Boilers, 2 Scotch 120-hp. Connelly; hand stoking; pumps, 2-2,880,000 gal. Canton; pumping to standpipe (1900) steel.
Pipe, 18 mi. 4 to 12-in.; hyd. 161, hose con. 2½-in. Darling; valves, 62 r. & l. h. thd. various; meters, 1610 various; av. daily cons. 495,000 gal.; serv. con. 1,610; ord. press. 50 to 75 lb.

ASHTABULA, 18,266.
ASHTABULA WATER SUPPLY CO.
Pres. & Treas., D. T. Seymour. . Ashtabula
V. Pres., E. W. Swisher..... Columbus
Sec., J. K. Henry..... "
Gen. Mgr., E. R. McDowell. ... Ashtabula

BAINBRIDGE, 883.
MUNICIPAL. Board of Public Affairs.
Pres., W. D. Worley..... Bainbridge
Mgr., C. L. Bemm..... "
" Wm. Andrews..... "
Sec., J. O. May..... "
Supt., Geo. Holmes..... "
Well, 10 ft. in diam. 25 ft. deep; no purification.
Boilers, hor. tubular 100-hp. 75 lb. Erie 1900, one hor. tubular 125-hp. 95 lb. Erie 1910; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. L-D-G 1903, 1-100,000 gal. hor. duplex L-D-G 1911 d. con. to steam engine, 100-hp. Erie 1900; elec. motors, 50-kw. 2200 v. s. ph. 60 cys. Bullock 1900; pumping to elev. tank, 30,000 gal.
Hyd. 22; meters, 2.
Rates: meter, min. charge 75c. mo., 25c. 1,000 gal. max., 5c. min.

BARBERTON, 9,410.
MUNICIPAL.
Dir. Serv., O. D. Everhard..... Barberton
City Engr., H. W. Alcorn..... "
Engr. P'g. Sta., Wilson Berlein. . "
Wells, 14 8-in. 43 to 90 ft. deep; one mi. from center distribution; no purification.
Boilers, 2 water-tube 256-hp. B. & W.; mech. stokers, B. & W.; pumps, 2-3,000,000 gal. duplex tri. exp. Worth., 2-266,400 gal. duplex deep well Downie driven by elec. motors, 2 15-hp. 220 v. 3 ph. 60 cys. G. E.; air compressor, 2 Ingersoll-Rand; pumping direct & to reservoirs, two 12 & 30 ft. in diam. 12 ft. deep.
Pipe, 21.12 mi. 4 to 14 in. c. i.; hyd. 210, hose con. 3¼-in. R. D. W., Ludlow & Darling; valves, 171 r. & l. h. thd. Pittsburgh; meters, 1600 Neptune, Gamon & Pittsburgh; av. daily cons. 1,000,000 gal.; serv. con. 1898; ord. pres. 50 lb., fire pres. 80 lb.
Rates: flat, $4 year; meters, 10c. 1,000 gal.

BATAVIA, 1,034.
MUNICIPAL. Board of Public Affairs.
Pres., C. Teal..... Batavia
Sec., Thos. Glanay..... "
Treas., R. S. Murphy..... "
Mbr., E. S. Rush..... "
Supt., Howard Bucknall..... "
Engr. P'g. Sta., John Boehmer.... "
East fork of Little Miami River; reservoir, 100,000 gal.; settling basins, 2-30,000 gal. ea.; slow sand filters, 120,000 gal.; chemical, sulphate of alumina.
Boilers, 2 hor. tubular 100-hp. ea. 100 lb. Erie 1900; hand stoking; pumps, 2-620,000 gal. hor. comp. duplex d. act. McGowan 1900, 1-600,000 gal. hor. single Union 1903 & 1-720,000 gal. hor. duplex Worth. 1914 both d. con. to steam engine, 100-hp. McEwen 1900; pumping to reservoir 100,000 gal.
Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 33, hose con. 4-in.; valves, 38 r. h. opening Crane; meters, 23 various; av. daily cons. 70,000 gal.; serv. con. 280; ord. pres. 90 to 140 lb., fire pres. same.
Rates: flat, $3.25 year, closet $2.50, closet $2.50; meter, min. charge $3 year, 12c. 1,000 gal.

BEACH CITY, 671.
MUNICIPAL.
Pres. Comrs., E. E. Lanser..... Beach City
Comr., L. A. Shatlain..... " "
Comr., H. Tunk..... " "
Supt., H. Agler..... " "
Wells, 3 tubular 8-in. 40-ft. deep; ¼ mi. from center distribution.
Boiler, one marine 40-hp. Keller; hand stoking; pump, 1-360,000 gal. F. M.; pumping to elev. tank, 40,000 gal. iron.
Pipe, 5 mi. 4 to 6-in. c. i.; hyd. 24, hose con. 2-in. Rensselaer; valves, 18; meters, 18 Hersey & Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 185; ord. pres. 32 to 37 lb., fire pres. 85 to 100 lb.

BEDFORD, 1,783.
MUNICIPAL. Board of Public Affairs.
Vil. Clerk, A. C. Hubbell..... Bedford
Buy water from the city of Cleveland.

BELLAIRE, 12,946.
MUNICIPAL.
Dir. Pub. Serv., Wm. A. Schramm.. Bellaire
Clerk, Marie M. Gaertner..... "
Supt., James Wilkinson..... "
Engr. P'g. Sta., H. W. Schramm.... "
Ohio River; at center distribution; mech. filters, 5,000,000 gal.; chemicals, sulphate of alumina & hypochlorite of lime.
Boiler, 2 water-tube 150-hp. ea. B. & W.; pumps, 3-14,000,000 gal. L-D-G & Allis-C.; pumping to reservoir, 2,750,000 gal.
Pipe, 22.25 mi. 4 to 30-in. c. i. & wood; hyd. 297, hose con. 2½-in. Bourbon; valves, 396 Bourbon; meters, 32 National; av. daily cons. 4,000,000 gal.; serv. con. 2100; ord. pres. 60 lb., fire pres. same.
Rates: meter, 3c. 1,000 gal.

BELLEFONTAINE, 8,238.
MUNICIPAL.
Dir. Pub. Serv.,
Earl F. Shipley..... Bellefontaine
Mbr. Bd., Walker Prall..... "
Mbr. Bd., Wm. T. Haviland.. "
Wells, 8 artesian 8&12-in. 70 to 165 ft. deep; 3000 ft. from center distribution.
Boilers, 2 return tubular 120-hp. ea.; hand stoking; pump, 1-2,500,000 gal. Snow; pumping to reservoir, 2,500,000 gal.
Pipe, 23 mi. 4 to 12-in. c. i.; hyd. 71, hose con. 2½-in.; valves, 161 l. h. thd.; meters, 95; av. daily cons. 900,000 gal.; serv. con. 2251; ord. pres. 65 lb., fire pres. same.
Rates: flat, $4 year, bath $4; meter, 10c. 1000 gal.

BLUFFTON, 1,953.
MUNICIPAL.
Pres. Bd. Serv., D. S. Flick.....Bluffton
Mbr., D. S. Beesby..... "
Mbr., Noah Basinger..... "
Treas. & Clerk, Sam Bixel..... "
Supt., Cyrus Schumacher..... "
Wells, 2 artesian 8-in. 300 & 330 ft. deep; ½ mi. from center distribution; aerating system.
Boilers, 4 return tubular 225-hp. Adams; hand stoking; pumps, 2-432,000 gal. Platt; pumping to standpipe (1896) iron.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 52, hose con. 2½-in. Ludlow; valves, 20 r. & l. thd. Crane; meters, 15 various; av. daily cons. 300,000 gal.; serv. con. 350; ord. pres. 40 to 45 lb., fire pres. 45 to 100 lb.
Rates: meter, 16c. 1,000 gal. max., 10c. min.

BRADFORD, 1,844.
MUNICIPAL. Board of Public Affairs.
Pres., H. J. Sempman.....Bradford
Mbr., E. S. Houdeshell..... "
Mbr., Albert Hartel..... "
Supt. & Engr. P'g. Sta.,
O. H. Preston..... "
Wells, 3 tubular 8&10-in. 45 to 143 ft. deep; near center business section; reservoir, 61,000 gal.
Pumps, 3-312,000 gal. Cook & Deming d. con. to gas engines, two 25-hp. ea. F. M.; pumping direct & to standpipe (1910) 51,000 gal.
Pipe, 3.75 mi. 4 to 12-in. c. i.; hyd. 55, hose con. 3-in.; valves, 20 r. h. thd. Bourbon; meters, 210 Neptune, Gamon & Pittsburgh; av. daily cons. 29,000 gal.; serv. con. 210; ord. pres. 50 lb., fire pres. 50 to 125 lb.
Rates: flat, $7 year.

BROOKVILLE, 1,187.
MUNICIPAL. Board of Public Service.
Pres., Milton Carmony.....Brookville
Mbr., Allen Hay..... "
" Wm. Bordan..... "
Sec., Chas. Pross..... "
Supt. & Engr. P'g. Sta.,
A. C. Couts..... "
Wells, 4 artesian 6&8-in. 62 to 80 ft. deep; no purification.
Pumps driven by gas engines, 2 25-hp. Era 1904; pumping to elev. tanks, 2-13,500 gal. ea.
Pipe, 3.5 mi. 4 to 10-in. c. i.; hyd. 40, hose con. 2½-in. Bourbon; valves, 22 r. h. opening Bourbon; meters, 223 King & Hersey; av. daily cons. 50.000 gal,; serv. con. 223; ord. pres. 50 to 90 lb., fire pres. same.
Rates: meter, min. charge $8 year 40,000 gal., 10c. 1,000 gal.

BRYAN, 3,641.
MUNICIPAL.
Pres. Comrs., J. E. Beach..... Bryan
Comr., L. Casebere..... "
Comr., J. M. Calkins..... "
Supt., S. E. Folk..... "
Wells, 13 artesian 3 to 10-in. 125-ft. deep; near center distribution; no purification.
Pumps driven by oil engine, 3900-hp. Lyons-Atlas & elec. motors, 2 50-hp. ea. 2200 v. 2 h. 60 cys. Westg.; pumping direct.
Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 93, hose con. 2½-in. Bourbon; valves, 43 r. h. thd.; meters, 550 Thomson; av. daily cons. 500,000 gal.; ser. con. 600; ord. pres. 55 lb., fire pres. 100 lb.
Rates: flat, $7 year; meter, 25c. 1000 gal.

BUCYRUS, 8,122.
BUCYRUS DEVELOPMENT CO.
Supt., Henry Diedrich.....Bucyrus
Impounding reservoir; mechanical filters, 2-1,000,000 gal. Jackson 1908; chemicals, sulphate of alumina.
Pumps, 1-3,000,000 gal. Allis-C., 1-1,500,000 gal. Holly, 1-1,500,000 gal. Walker; av. daily cons. 950,000 gal.

CADIZ, 1,971.
MUNICIPAL.
Supt. & Collector, F. J. Cessna.....Cadiz
Wells, 8 tubular 8-in. 150 to 250 ft. deep; nopurification.
Pumps, 2 comp. duplex Worth.; air lifts, Harris; av. daily cons. 50,000 gal.

CALDWELL, 1,430.
MUNICIPAL.
Pres. Pub. Serv., Joseph H. Ryan. Caldwell
Mbr., W. H. Richcreek..... "
Mbr., H. B. McKee..... "
Engr. P'g. Sta., L. W. McElroy.... "
Creek; pump, 1,152,000 gal. Deane driven by gas engine, 150-hp. Bruce-McBeth; av. daily cons. 100,000 gal.; ord. pres. 120 lb., fire pres. same.

CANAL DOVER, 6,621.
MUNICIPAL.
Dir. Serv., Osmond Salmon... Canal Dover
Sec., H. H. Prince..... " "
Supt., David Ott..... " "
Wells, 26 tubular 8-in. 60 to 200-ft. deep; no purification.
Boilers, 2 hor. 75-hp. Erie; hand stoking; pumps, 1-500,000 gal. Worth., 1-1,000,000 gal. Worth., pumping direct & to standpipe (1895) iron.
Pipe, 8 mi. 4 to 12-in.; hyd. 120, hose con. 2-in.; meters, 11 Thomson; av. daily cons. 850,000 gal.; serv. con. 1650; ord. pres. 40 to 60 lb., fire pres. 80 to 120 lb.

CANTON, 50,217.
MUNICIPAL.
Mayor, C. A. Stolberg.....Canton
Dir. Public Serv., C. W. Kent..... "
Dir. Public Safety, R. J. Kunkel.... "
Supt., Louis B. Ohliger..... "
Engr. P'g. Sta., J. A. Householder.. "
Wells, 86 artesian 6&8-in. 100 to 350 ft. deep; one mi. from center business section; no purification.
Boilers, 3 vert. 200-hp. ea. 135 lb. Wickes 1905, one vert. 300-hp. 135 lb. Wickes 1911;

mech. stokers, Roney; pumps, 1-12,000,000 gal. vert. tri. exp. c. & f. wh. Todd 1905, 1-8,000,000 gal. hor. c. & f. wh. Holly 1895, 1-3,000,000 gal. vert. comp. duplex d. act. Worth. 1887, 1-1,500,000 gal. hor. comp. d. act. Worth. 1912, 1-2,000,000 gal. vert. triplex Deane 1911 geared to elec. motors; 1-2,000,000 gal. vert. triplex Platt 1912, 4-576,000 gal. ea. vert. centrifugal Hill-Tripp 1914 d. con. to elec. motor; steam engines, two 200-hp. ea. Russell 1912; elec. energy from Canton Elec. Co.; pumping direct & to standpipe (1907) 1,000,000 gal.

Pipe, 93.25 mi. 4 to 20-in. c. i.; hyd. 651, hose con. 4-in.; meters, 1281 various; av. daily cons. 6,617,000 gal.; serv. con. 13,026; ord. pres. 20 to 90 lb., fire pres. same.

Rates: flat, $7 year, bath & closet $1; meter, 7c. 1,000 gal.

CAREY, 2,225.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Pres. Trustees, Chas. B. Ranger..... Carey
Trustee, H. Newhard..... "
Trustee, H. A. Kear..... "
Sec., A. J. Frederick..... "
Supt., L. V. Ranger..... "

Wells, 6 tubular 8-in. 60 ft. deep; ½ mi. from center business section.

Boilers, 2 hor. 100-hp. ea. 100 lb. Brownell 1908, one hor. 80-hp. 100 lb. 1897; hand stoking; pumps, 2-500,000 gal. hor. comp. d. act. L-D-G; air compressor, 600 cu. ft. 1906 steam driven; steam engines, 50 & 100-hp. Skinner 1906; elec. motors, 3 110 v. s. ph. 140 cys. Ft. Wayne 1897; pumping to standpipe (1894).

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 54, hose con. 2½-in. Ludlow; valves, 25 r. h. opening Rensselaer; meters, 10 Pittsburgh & Hersey; av. daily cons. 500,000 gal.; serv. con. 500; ord. pres. 50 to 120 lb., fire pres. same.

Rates: flat, bath $2.50 year, closet $3; meter, min. charge $6 year 50,000 gal., 12c. 1000 gal.

CARROLLTON, 1,730.

MUNICIPAL.

Supt., E. L. Swann.....Carrollton

CELINA, 3,493.

MUNICIPAL. Board of Public Affairs.

Pres., Chas. H. Gray..... Celina
Sec., T. A. Weis..... "
Mbr., J. F. McGee..... "
Clerk, C. A. Petrie..... "
Engr. P'g. Sta., S. W. Howard..... "

Wells, 8 tubular 8-in. 300 ft. deep; ½ mi. from center business section

Boilers, one water-tube 300-hp. 125 lb. Heine 1914, 3 hor. tubular 100-hp. ea. 125 lb. Erie 1900; hand stoking; pumps, 2-1,000,000 gal. ea. hor. comp. d. act. L-D-G 1895; air compressor, 500 cu. ft. Ingersoll-Rand 1895, steam turbine, 500 cu. ft. Blaisdell 1910; steam engines, 150-hp. Russell 1900, 250-hp. Skinner 1900; pumping to standpipe (1895) 195,000 gal.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 131, hose con. 2½-in. Bourbon; valves, 95 l. h. opening Eddy; meters, 40 Pittsburgh; av. daily cons. 88,000 gal.; serv. con. 600; ord. pres. 45 to 55 lb., fire pres. 60 to 100 lb.

Rates: flat, $5 year; meter, min. charge $5 year 25,000 gal., 50c. 1,000 gal. max., 7c. min.

CHICAGO JUNCTION, 2,950.

MUNICIPAL. Board of Trustees of Public Affairs.

Pres., A. H. Fry..... Chicago Junction
Mbr., Shelby Archer..... " "
Mbr., C. V. Snyder..... " "
Sec., E. K. McMorris..... " "
Supt., Robt. T. Smith,.... " "

Wells, 7 tubular 8-in. 78 to 90 ft. deep.

Boilers, 2 hor. tubular 80-hp. 100 lb. Dayton 1900, one hor. tubular 80-hp. 100 lb. Erie 1902; pumps, 1-1,000,000 gal. hor. simple d. act. Platt 1900, 1-750,000. gal. hor. comp. d. act. McGowan 1905, 1-750,000 gal. hor. simple d. act. Platt 1900; pumping to standpipe (1900) 80,000 gal.

Pipe, 14 mi. 4 to 10-in. c. i.; hyd. 89, hose con. 2½-in. Michigan & Eddy; valves, 32 r. h. opening Eddy; meters, 472 mostly Gamon; av. daily cons. 400,000 gal. 30%; serv. con. 900; ord. pres. 40 to 50 lb., fire pres. 80 to 100 lb.

Rates: flat, $6 year, bath $2, closet $3; meter, min. charge $4 year, 20c. 1,000 gal. max., 6c. min.

CHAGRIN FALLS, 1,931.

MUNICIPAL.

Pres. Comrs., C. B. Vincent...Chagrin Falls
Comr., E. A. Kline..... " "
Comr., S. A. Whitlock..... " "
Clerk, L. G. Bradley..... " "
Supt., John Sutton..... " "

Springs; 3 mi. from center distribution; reservoir, 135,000 gal.; no purification.

Boiler, one hor. Erie; hand stoking; pumps, 1-750,000 gal. Canton; pumping to reservoir, 200,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 2½-in. R. D. W. & Darling; meters, 700 Thomson & Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 800; ord. pres. 90 to 110 lb., fire pres. same.

Rates: all meter, min. charge $2 6-mo. 1000 cu. ft.

CHILLICOTHE, 14,508.

CHILLICOTHE GAS LIGHT & WATER CO.

Pres., F. A. Stacey.....Chillicothe
Sec., John A. Poland..... "
Supt. & Pur. Agt.,
Robert Herron..... "

Wells, 2 open & tubular 60 ft. deep; no purification.

Boilers, one return tubular 100-hp. Erie; one hor. return tubular 150-hp. Brownell; pumps, 1-2,500,000 gal. McGowan, 1-2,500,000 gal. Worth.; pumping to reservoir, 2,500,000 gal.

Pipe, 26 mi. 4 to 16-in. c. i.; hyd. 175 R.

D. W.; valves, Eddy; meters, 250; av. daily cons. 1,000,000 gal.; serv. con. 3,000; ord. pres. 95 lb.

CINCINNATI, 381,617.

MUNICIPAL.

Gen. Supt., J. A. Hiller.....Cincinnati
Cons. Engrs., Bouscaren & Benzenberg
1610 Wells Bldg., Milwaukee, Wis.
Supt., Adm. D. Blackmore.....Cincinnati
Supt. Dist., D. Everson..... "
Ch. Engr. P'g. Sta.,
C. A. Anderson..... "
Chemist, J. W. Ellins..... "

Ohio River; 12 mi. from center distribution; settling basins, 350,000,000 gal.; mech. filters, 112,000,000 gal.; chemical, liquid chlorine.

Boilers, 8 water-tube 300-h.p. each. 150 lb. B. & W., 6 hor. water-tube 185-hp. ea. 160 lb. Gerry, 6 hor. water-tube 207-hp. ea. 160 lb. Gerry, 4 hor. water-tube 310-hp. ea. 160 lb. A. & N., 3 hor. tubular 100-hp. ea. 125 lb. Erie, 2 water-tube 220-hp. ea. 160 lb. B. & W.; mech. stoking, American, Roney & Murphy; pumps, 4-30,000,000 gal. vert. Camden 1907, 3-12,000,000 gal. vert. Holly 1907, 1-17,000,000 gal. vert. Holly 1914, 3-25,000,000 gal. vert. Holly 1907, 2-2,500,000 gal. hor. Snow 1907, 1-7,000,000 gal. vert. Holly 1914; pumping direct & to reservoir, 100,000,000 gal., to standpipes, 2 steel, & elev. tanks, 4 steel & concrete.

Pipe, c. i.; hyd., hose con. 3-in. Bourbon; valves, r. & l. h. thd.; meters, 31,007 various; av. daily cons. 50,300,000 gal.; serv. con. 55,498; ord. pres. 30 to 175 lb.

Rates: meter, 8c 100 cu. ft.

CIRCLEVILLE, 6,744.

CIRCLEVILLE WATER SUPPLY CO. Office, 152 W. Main Street. (Controlled by New Jersey General Security, 158 Ellison Street, Paterson, N. J.)

Pres., E. LeB. Gardner.....Paterson
Sec. & Treas., Whitney Conant... "
Des. Engr., A. W. Cuddeback.... "
Supt., J. M. Jones.....Circleville

Darby Creek; 2 mi. from center distribution; no purification.

Boilers, 2 hor. 100-hp. McGregor; hand stoking; pumps, 3-4,000,000 gal. Bethlehem vert. duplex & 2 Holly comp. duplex; pumping direct & to standpipe (1888) steel.

Pipe, 14.2 mi. 6 to 16-in. c. i.; hyd. 152, hose con. 2½-in. Ludlow; valves, 58 r. h. thd. Ludlow; meters, 450 Neptune; av. daily con. 434,000 gal.; serv. con. 1100; ord. pres. 55 to 65 lb., fire pres. 120 lb.

CLEVELAND, 560,663.

MUNICIPAL.

Comr. & Supt., C. F. Schulz.....Cleveland
Dir. Pub. Utilities, C. W. Stage.. "
Deputy Comr., C. P. Jaeger..... "
Asst. Engr., L. A. Quayle..... "

Lake Erie; 5 mi. from center distribution; mech. filters under construction, 150,000,000 gal.; chemical, hypochlorite of lime.

Boilers, 8 water-tube 272.5-hp. B. & W., five 500-hp., & one 150-hp.; mechanical stoking, chain grate; pumps, 1-50,000,000 gal. Worth., 4-25,000,000 gal. Holly, 2-2,000,000 gal. Holly, 1-10,000,000 gal. hor. duplex Worth., 2-5,000,000 gal. centrifugal Wilson-Snyder; elec. motors, 550-hp. 440 v. 3 ph. 60 cys. Allis-C.; elec. energy from Cleveland Elec. Illg. Co.; pumping direct & to reservoirs, 80,000,000 gal.; elev. tank, 2 00,000 gal. steel.

Pipe, 858 mi. 4 to over 30-in. c. i.; hyd. 10,387, hose con. 2½ & 4-in. R. D. W., Roe-Stephens; valves, 19,357 l. h. thd. various; meters, 88,252 various; av. daily cons. 76,813,000 gal.; serv. con. 111,981; ord. pres. 30 to 130 lb., fire pres. 40 to 270 lb.

Rates: flat, $2.25 6 mo., bath $1, closet $1; meter, min. charge $1.25 6 mo., 40c. 1000 cu. ft.

CLYDE, 2,815.

MUNICIPAL. BOARD OF PUBLIC AFFAIRS.

Pres., Frank Futch.....Clyde
Mbr., D. D. Waldron..... "
Mbr., Fred Curtiss..... "
Clerk, H. B. Drislan..... "
Supt., Jno. F. McIntosh..... "

Wells, 2 tubular 12-in. 230 ft. deep; ½ mi. from center distribution.

Boilers, 3 water-tube & return tubular 400-hp. McNaul & Brownell; hand stoking; pumps, 3-2,000,000 gal. Dayton & Gordon; elec. motors, 55 kw. 220 v. 3 ph. 60 cys. Ft. Wayne; pumping direct.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 72, hose con. 3-in. R. D. W., Bourbon & Darling; valves, 30 l. h. thd. Darling; meters, 20 Thomson; av. daily cons. 400,000 gal.; serv. con. 560; ord. pres. 40 to 45 lb., fire pres. 55 to 80 lb.

COLUMBIANA, 1,582.

MUNICIPAL. Columbiana Light & Waterworks.

Pres. Bd. Trustees,
Nelson Kyser..... Columbiana
Trustee, Lauren Myers..... "
Trustee, Harvey Rapp..... "
Supt., Paul Glechler..... "

Wells, 3 tubular 8-in. 65 to 235 ft. deep; 1000 ft. from center distribution.

Boilers, 2 hor. tubular 150-hp. Penn & Atlas; mech. stoking; pumps, 2-500,000 gal. Platt; pumping direct.

Pipe, 6 mi. 4 to 12 in.; hyd. 42, hose con. 2½-in. Ludlow; valves, 30 r. h. thd.; meters, 275 Pittsburgh, Buffalo & Worth.; av. daily cons. 300,000 gal ; serv. con. 275; ord. pres. 80 lb., fire pres. 100 lb.

COLUMBUS, 181,511.

MUNICIPAL.

Supt., Jerry O'Shaughnessy....Columbus
Chemist, Charles P. Hoover.... "

Impounding reservoir on Scioto River; 3 mi. from center distribution; settling & coagulating basins, 6-15,000,000 gal.; mech. filters, 10-3,000,000 gal.; chemicals, hypo-

chlorite of lime, sulphate of alumina, lime & soda ash.

Boilers, 2 water-tube 300-hp. ea. B. & W.; hand stoking; pumps, 2-20,000,000 gal. ea. Holly; elec. motors, 270 kw. 2000 v. 2 ph. 60 cys. Burke; elec. energy from municipal light plant; pumping direct.

Pipe, 317.4 mi. 4 to over 30-in. c. i.; hyd. 2101, hose con. 4-in. Holly & Ludlow; valves, 3048 l. h. thd. Bourbon & Smith; meters, 28,851 Hersey, Worth., Pittsburgh & Neptune; av. daily cons. 18,300,000 gal.; serv. con. 33,738; ord. pres. 70 to 90 lb., fire pres. same.

Rates: all meter, 90c. 1,000 gal. max., 80c. min.

COLUMBUS GROVE, 1,802.

MUNICIPAL. Board of Public Affairs.

Supt., Earl Anderson.....Columbus Grove
Mbr. H. F. Light..... " "
" H. R. Day..... " "
" J. H. Eversole..... " "

Wells, 2 tubular 10-in. 90-ft. deep; ½ mi. from center distribution.

Boilers, 3 hor. tubular 270-hp. Brownell & Penn; pumps, 2-240,000 gal. comp. duplex McGowan; pumping to standpipe (1902) steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 43, hose con. 3-in. Bourbon; valves, 35 l. h. thd.; meters, 175 National; av. daily cons. 60,000 gal.; serv. con. 200; ord. pres. 50 to 55 lb., fire pres. 80 to 140 lb.

Rates: flat, $5 year; meters, min. charge $5 33,000 gal., 15c. 1,000 gal.

CONNEAUT, 8,319.

THE CONNEAUT WATER CO., Office, 929 Garfield Bldg., Cleveland, O.

Pres., W. H. Lamprecht,.....Conneaut
Supt., Lee Harvey,..... "
Engr. P'g. Sta., E. E. Webb,..... "

Lake Erie; 1.5 mi. from center distribution; settling and coagulating basins, 2-160,000 gal.; mech. filters, 3,000,000 gal.; chemical, sulphate of alumina.

Boilers, 2 hor. 300 hp. Erie; hand stoking; pumps, 5-9,380,000 gal. Wilson-Snyder, Hughes, De Laval, L-D-G. & Worth.; pumping to standpipe, steel.

Pipe, 21 mi. 4 to 12-in. c. i.; hyd. 119, hose con. 2½ & 4½-in. Eddy; valves, 160 r. & l. h. thd. Eddy; meters, 1040 Neptune; av. daily cons. 1,430,000 gal.; serv. con. 2300; ord. pres. 95 to 115 lb., fire pres. 135 to 160 lb.

Rates: flat, $2 year, bath $3, closet $4; meter, min. charge $9 year 40,000 gal., 25c. 1,000 gal. max., 10c. min.

CORNING, 1,564.

MUNICIPAL.

Supt., J. D. Rodgers.....Corning
Clerk, R. A. Hardy..... "

Impounding reservoir; ½ mi. from center distribution; no purification.

Pump driven by gasoline engine 40-hp.; pumping to reservoir.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in.; av. daily cons. 3,000 gal.; serv. con. 50.

COSHOCTON, 9,603.

MUNICIPAL.

Serv. Dir., Elmer Smith.....Coshocton
Supt., A. M. Fisher..... "

Wells, one 32 ft. in diam. 32 ft. deep & eleven 10-in. 45 ft. deep; 0.8 mi. from center distribution; no purification.

Boilers, 2 hor. fire-tube 150-hp. ea. Erie; hand stoking; pumps, 1-2,000,000 gal. Snyder-Hughes, 1-1,500,000 gal. Snyder-Hughes, 1-3,000,000 gal. Holly; pumping direct & to reservoir, 324,000 gal.

Pipe, 25.5 mi. 4 to 30-in. c. i.; hyd. 167, hose con. 2½-in. Eddy; valves, 306 l. h. opening Eddy; meters, 52 Pittsburgh & Worth.; av. daily cons. 1,500,000 gal.; serv. con. 2500; ord. pres. 65 to 120 lb., fire pres. same.

Rates: meter, 8c. 1,000 gal.

COVINGTON, 1,848.

MUNICIPAL.

Pres. Comrs., J. B. Neth.....Covington
Comr., Wm. Drees..... "
Comr., W. V. Swisher..... "
Supt. & Engr. P'g. Sta.,
C. E. Rudy..... "

Wells, 5 tubular 8-in. 38 to 40 ft. deep; near center distribution; no purification.

Pump, 2-180,000 gal. McGowan driven by gas engines, 2 40-hp. Burger; pumping to elev. tank, 50,000 gal. steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2¼-in. Bourbon; valves, 38 l. h. thd. Bourbon; meters, 405 Pittsburgh & Gamon; av. daily cons. 75,000 gal.; serv. con. 417; ord. pres. 62 to 73 lb., fire pres. same.

Rates: meter, min. charge $5 for 20,000 gal., 18c. 1000 gal. max., 8c. min.

CRESTLINE, 3,807.

MUNICIPAL.

City Engr., Chas. E. Geiss.....Crestline

CUYAHOGA FALLS, 4,020.

MUNICIPAL.

Pres. Comrs., Chas. Haley.Cuyahoga Falls
Sec., James W. Lostetter... " "
Comr., J. B. Jackson..... " "
Comr., W. C. Hough..... " "
Supt., L. F. Cook..... " "

Wells, 8 tubular 6&8-in. 75 ft. deep; reservoir, 300,000 gal.; chemical, hypochlorite of lime.

Boilers, 2 return tubular 150-hp. ea. Erie; pumps, 1-750,000 gal. Snyder-Hughes; elec. motor, 10 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to elev. tank (1901) 100,000 gal. steel.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 105, hose con. 2½-in. Darling; valves, 75 r. & l. h. thd. Crane & Clow; meters, 900 mostly Hersey & Gamon; av. daily cons. 300,000 gal.; serv. con. 900; ord. pres. 65 to 77 lb.

Rates: meter, 30c. 1000 gal. max., 12c. min.

DAYTON, 116,577.
MUNICIPAL.
City Mgr., Henry M. Watt.....Dayton
Supt., H. Collins..... "
Cons. Engrs., Pollard & Ellms,
2806 Union Central Bldg., Cincinnati
Supt. Const., Fred. Grosbrent.... "
Engr. P'g. Sta., Wm. V. R. Coon,. "

Wells, 122 8-in. 50 ft. deep; 0.3 to 2 mi. from center distribution; reservoir, 10,000,000 gal.; no purification.

Boilers, 4 water-tube 450-hp. B. & W.; pumps, 3-35,000,000 gal., 2-3,000,000 gal. Snow, Holly; elec. motors 240 kw. 220 v. 3 ph. 60 cys. G. & E. Wayne; elec. energy from Dayton Power & Light Co.; pumping to air pres. tank, 313,000 gal.

Pipe, 223 mi. 4 to 30-in. c. i.; hyd. 2000, hose con. 2½-in. various; meters, 30,000 various; av. daily cons. 14,000,000 gal.; serv. con. 27,000; ord. pres. 60 to 70 lb., fire pres. 100 to 135 lb.

Rates: meter, 60c. 1,000 cu. ft. max, 45c. min.

DEFIANCE, 7,327.
DEFIANCE WATER CO.
Pres., Geo. J. Lang..... Defiance
V. Pres., Peter Kettenring..... "
Receiver, W. J. McGonigale..... "
Supt., C. C. Kuhn..... "

Maumee River; 1.25 mi. from center distribution; no purification.

Boilers, 2 100-hp. ea. A. & R.; hand stoking; pumps, 2-2,000,000 gal. ea. comp. duplex Blake; pumping to standpipe (1900) steel.

Pipe, 20 mi. 4 to 16-in. c. i.; hyd. 179, hose con. 2½-in. Ludlow; av. daily cons. 1,250,000 gal.; serv. con. 1100; ord. pres. 40 to 60 lb., fire pres. 100 lb.

DELAWARE, 9,076.
DELAWARE WATER CO.
Pres., F. M. Marriott .....Delaware
V. Pres., Geo. F. West..... Portland, Me.
Treas., Vernon F. West..... " "
Sec. & Supt., C. W. Wiles .....Delaware

Wells, 25 tubular 4 to 8-in. 28 to 222 ft. deep; 3 mi. from center distribution.

Boilers, 2 fire-tube 150-hp. ea. Erie; hand stoking; pumps, 3-500,000 gal. Deane; pumping direct & to standpipe (1889) steel.

Pipe, 23 mi. 4 to 16-in. c. i.; hyd. 266, hose con. 2½-in. Ludlow; valves, 168 l. h. opening Ludlow; meters, 1050 various; av. daily cons. 1,150,000 gal.; serv. con. 2200; ord. pres. 60 lb., fire pres. 100 lb.

Rates: flat, $5 year, bath $3, closet $3; meter, 20c. 100 cu. ft. max., 7c. min.

DELPHOS, 5,038.
MUNICIPAL.
City Engr., A. L. Metheany .....Delphos

DELTA, 1,689.
MUNICIPAL.
Pres. Trustees, W. H. Lambert.....Delta
Trustee, W. H. Fraker..... "
Trustee, D. Hoefer..... "
Cons. Engr., The W. J. Sherman Co. Toledo
Vil. Clerk, A. B. Thompson.....Delta

Wells, 3 tubular 10-in. 230 ft. deep; ½ mi. from center distribution; no purification.

Pumps driven by gasoline engine, 50-hp. Miami; pumping to elev. tank 60,000 gal. iron.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 2½-in. Darling; valves, r. h. opening Darling; meters, 197 Union & Gamon; av. daily cons. 23,000 gal.; serv. con. 197; ord. pres. 40 to 46 lb., fire pres. 90 to 100 lb.

Rates: meter, min. charge 50c. mo., 25c. 1000 gal. max., 15c. min.

DENNISON, 4,008.
THE DENNISON WATER SUPPLY CO.
Supplies Uhrichsville.
Pres., M. Moody..... Dennison
Treas., E. D. Moody..... "
V. Pres., Thomas Wright..... "
Mgr., E. L. Smith..... "
Sec. & Supt., C. O. Romig..... "

Impounding reservoir on Big Stillwater Creek, 271,000,000 gal.; one mi. from center distribution; mechanical filters, 2,000,000 gal.; chemical, sulphate of alumina.

Boiler, 2 water-tube 150-hp. ea. Erie; hand stoking; pumps, 3-7,500,000 gal. Holly & De Laval; elec. motors, 175-hp. 2300 v. 3 ph. 60 cys. Westg.; elec. energy from County Electric Co.; pumping to reservoir, 4,000,000 gal.

Pipe, 17 mi. 4 to 12-in. c. i.; hyd. 180, hose con. 2½-in. Ludlow; valves, 130 l. h. opening Ludlow; meters, 1700 Keystone; av. daily cons. 2,000,000 gal.; serv. con. 2100; ord. pres. 90 lb., fire pres. same.

Rates: flat, $5 year; meter, 35c. 1,000 gal. max., 6c. min.

DUNKIRK, 1,109.
MUNICIPAL. Board of Public Service.
Mbr., C. B. Woods.....Dunkirk
" H. C. Mason..... "
" W. J. Ruffright..... "
Supt. & Engr. P'g. Sta.,
Rex De Hoven..... "
Des. Engr., Chas. Brossman..... "
Sec., Chas. L. Fulks..... "

Well, 10-in. 200 ft. deep; no purification.

Pump, 1-120,000 gal. Luitweiler driven by gasoline engines, 25-hp. St. Mary's; pumping to elev. tank, 50,000 gal.

Pipe, 8 mi. 2 to 8-in. c. i.; hyd. 33, hose con. 2½-in.; valves, 18 r. h. thd.; meters, 5 Pittsburgh; av. daily cons. 75,000 gal.; serv. con. 170; ord. pres. 35 to 52 lb., fire pres. same.

Rates: flat, min. $6 year, meter, 20c. 1,000 gal.

EAST CLEVELAND, 9,175.
Distribution system only. Supply from city of Cleveland by meter.

EAST PALESTINE, 3,537.
MUNICIPAL. Board of Trustees of Public Affairs.

Pres., Jacob Ashman.....East Palestine
Sec., J. R. Hays..... " "
" C. F. Adamson..... " "
" J. W. Smith..... " "
Supt., W. H. Van Fossen.... " "

Wells, 4 tubular 6&8-in. 18 to 25 ft. deep; ½ mi. from center business section.

Boilers, hor. tubular 125-hp. 125 lb. Nagel 1911, hor. tubular 125-hp. 125 lb. Erie 1910; hand stoking; pumps, 1-1,000-000 gal. hor. comp. d. act. McGowan 1906, 1-750,000 gal. hor. comp. d. act. McGowan 1900; air compressor, 150 cu. ft. Ingersoll-Rand 1911 steam driven; pumping to reservoir, 660,000 gal.

Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 85, hose con. 2½-in. Ludlow & Roe-Stephens; valves, 60 l. h. opening Ludlow; meters, 17 Neptune & National; av. daily cons. 506,000 gal.; serv. con. 1100; ord. pres. 90 lb.

Rates: flat, $1 quarter, bath 50c., closet 50c.; meter, 25c. 1000 gal. max., 7c. min.

EAST YOUNGSTOWN, 4,972.

THE MAHONING VALLEY WATER CO.
Pres., Mason Evans.....East Youngstown
V. Pres., H. G. Hamilton. " "
Sec. & Treas.,
James J. McNally..... " "
Supt., Ben C. Miller..... " "

Impounding reservoir on Yellow Creek, 2,000,000,000 gal.; 3 mi. from center distribution; no purification.....

Gravity distribution from reservoir above.

Pipe, 12 mi. 4 to 30-in. c. i.; hyd. 50, hose con. 2½-in. R. D. W.; valves, r. & l. h. thd. various; meters, 225 various; av. daily cons. 4,500,000 gal.; serv. con. 632; ord. pres. 40 to 75 lb., fire pres. same.

Rates: meter, $1.50 1000 cu. ft. max., 60c. min.

EATON, 3,187.

MUNICIPAL. Board of Public Affairs.
Pres. W. A. Hurtand.....Eaton
Mbr., T. J. Minton..... "
" F. A. Price..... "
Supt., W. C. Dove..... "
Cons. Engr., John W. Hill,
506 1st. National Bk. Bldg., Cincinnati

Spring & well, 10-in. 145 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 2 hor. 100-hp. Brownell; hand stoking; pumps, two 216,000 gal. Gordon; pumping to standpipe (1891) steel.

Pipe, 11.25 mi. 4 to 12-in. c. i.; hyd. 86, hose con. 2¼-in. R. D. W.; valves, r. h. opening Michigan; meters, 522 Thomson, Pittsburgh, Gamon & Buffalo; av. daily cons. 150,000 gal.; serv. con. 807; ord. pres. 45 to 58 lb., fire pres. 100 lb.

Rates: flat, $5 year; meter, 20c. 1,000 gal. max., 12½c. min.

ELMORE, 937.

MUNICIPAL. Board of Public Affairs.
Pres., Sam E. Miller..... Elmore
Mbr., B. B. Rice..... "
Mbr., S. H. Williams..... "
Supt., Alvie Crozier..... "

Wells, 8 tubular 5-in, 385 ft. deep; ¼ mi. from center business section; no purification.

Pumps, 1-442,000 gal. vert. triplex 1911 belted to gas engines, 35-hp. Middletown 1911; pumping to standpipe (1911) 40,000 gal. iron.

Pipe, 4 mi. 6 to 8-in. c. i.; hyd. 27, hose con. 2½-in. National; valves, 13 r. h. opening; meters, 110 Union; av. daily cons. 20,000 gal.; serv. con. 110; ord. pres. 45 to 50 lb., fire pres. 150 lb.

Rates: meter, min. charge $2.50 six mo., 20c. 1,000 gal.

ELYRIA, 14,825.

MUNICIPAL.
Dir. Pub. Serv., M. M. Wilcox..... Elyria
Ch. Clerk, J. B. Daly..... "
Supt. Dist., J. M. Dougherty..... "
Supt. Meters, Thos. Potter..... "
Engr. P'g. Sta., Albert J. Miller..... "
Chemist, Paul O. Collins..... "

Lake Erie; 11 mi. from center distribution; settling & coagulating basins, 1,500,-000 gal.; mechanical filters, 5,000,000 gal.; chemicals, sulphate of iron & lime.

Boilers, 3 Scotch 125-hp. Connelly; hand stoking; pumps, 1-3,000,000 gal. comp. Snow, 1-500,000 gal. comp. Snow; pumping direct.

Pipe, 60 mi. 4 to 30-in. c. i.; hyd. 365, hose con. 2½-in. Ludlow, R. D. W. & Eddy; valves, 600 l. h. thd. Rensselaer; meters, 5,900 various; av. daily cons. 2,000,000 gal.; serv. con. 3902; ord. pres. 35 to 45 lb., fire pres. same.

Rates: meter, $1.50 1000 cu. ft. max., 60c. min.

EUCLID, 1,953.

MUNICIPAL.
Mayor, R. W. Fuller.....Euclid
Supt., Harvey Migner..... "
Des. Engr., F. A. Pease..... "

Supply from Cleveland.

Pumps, 1-1,440,000 gal. Platt driven by elec. motor, 75 kw. 220 v. 3 ph. 60 cys. Westg.; pumping to elev. tanks, 100,000 gal. steel.

Pipe, 10.25 mi. 4 to 12-in. c. i.; hyd. 175, hose con. 2½-in. R. D. W.; valves, 55 l. h. thd. Rensselaer; meters, one Thomson; av. daily cons. 50,000 gal.; serv. con. 110; ord. pres. 35 to 45 lb., fire pres. 90 to 110 lb.

Rates: flat, min. $6 year; meter, $1 for 1000 cu. ft.

FAIRPORT, 2,263.

Supplied by the city of Painesville.

FINDLAY, 14,858.

MUNICIPAL.
Mayor, W. J. Frey.....Findlay
Dir. Serv., H. N. Askam..... "
Supt., W. C. Nusser..... "
Engr. P'g. Sta., A. E. Capell..... "

Springs and wells; 11 mi. from center distribution; reservoir, 6,000,000 gal.

Boilers, 3 fire-tube 100-hp. H. S. G.;

hand stoking; pumps, 2-8,000,000 gal. Canton & 2 L-D-G; pumping direct.

Pipe, 38 mi. 4 to 30-in. c. i.; hyd. 271, hose con. 2½-in. Bourbon; valves, 215 r. h. thd. Eddy; meter, 3,000 various; av. daily con. 1,300,000 gal.; serv. con. 3,000; ord. pres. 60 to 65 lb., fire pres. 100 to 110 lb.

Rates: meter, 24c. 1000 gal. max., 8c. min.

FORT RECOVERY, 1,193.

MUNICIPAL.

Clerk of Board, P. J. Fox.....Ft. Recovery

FOSTORIA, 9,597.

MUNICIPAL.

Mayor, G. W. Cunningham.....Fostoria
Serv. Dir., E. Cunningham..... "
Supt., Wm. Lord..... "
Sec., Mrs. Bryan..... "
Engr. P'g. Sta., Frank Sinclair..... "

Portage River & wells, 2 tubular 6 & 10-in. 180 & 200 ft. deep; one mi. from center business section; reservoirs, 2-215,000,000 gal.; slow sand filters, 2-9,000,000 gal. 69x161 ft.

Pumps, 2-3,000,000 gal. ea. hor. Gordon 1890; air compressor, Ingersoll-Sargent 1893 steam driven; pumping to standpipe (1891) 300,000 gal.

Pipe, 25 mi. 4 to 14-in. c. i.; hyd. 156, hose con. 2½-in. R. D. W.; valves, 241 r. h. opening Eddy & Rensselaer; meters, 1724 Thomson, Hersey & Neptune; av. daily cons. 900,000 gal.; serv. con. 1740; ord. pres. 55 lb.. fire pres. 100 lb.

Rates: meter, min. charge $1.50 mo. 3500 cu. ft.

FRANKFORT, *800.

MUNICIPAL. Board of Public Affairs.

Pres., N. P. Wisehart.....Frankfort
Mbr., Jos. D. McCoy..... "
Mbr., John V. Brooks..... "
Clerk, Geo. H Schadle..... "
Supt., W. H. Smith.....
Cons. Engr.
The W. J. Sherman Co..... "

Well, 8-in. 107 ft. deep; ¼ mi. from center distributior; no purification.

Boilers, 2 hor. fire-tube 100-hp. ea. Brownell; hand stoking; pump, one 1,010,000 gal. Worth.; pumping direct & to elev. tank, 60,000 gal. steel.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 31, hose con. 2½-in. Darling; valves, l. h. thd. Darling; ord. pres. 40 to 50 lb., fire pres. 90 to 100 lb.

FREDERICKSBURG, 5,017.

MUNICIPAL.

Chmn. Bd., E. L. Lytle.....Fredericksburg
Mbr., A. E. Hurst..... "
" J. B. Cramer..... "
Supt., J. H. Hunter..... "

Well, tubular; pump driven by gasoline engine, 5-hp. F. M.; pres. 85 lb.

FREDERICKTOWN, 1,021.

MUNICIPAL. Board of Bublic Affairs.

Mbr. A. C. Huddle.....Fredericktown
" D. W. Goodell..... "
" Fred Clark..... "
Engr. P'g. Sta., Jno. Cook... "
Town Clerk, C. J. Lovell.... "

Well, 20 ft. in diam. 20 ft. deep; ½ mi. from center distribution.

Pumps, two 432,000 gal. McGowan & Weinman driven by gasoline engines, 2 35-hp. International; pumping direct & to elev. tank, 40,000 gal. steel.

Pipe, 4.5 mi. 4 to 12-in.; hyd. 37, hose con. 2½-in. Bourbon; av. daily cons. 100,000 gal.; serv. con. 325; ord. pres. 60 to 75 lb., fire pres. 75 lb.

Rates: flat, $3 year.

FREEPORT, 733.

MUNICIPAL.

Comr., W. L. Gray.....Freeport
" S. W. Nash..... "
" A. Crossin..... "
" S. W. Nass..... "
Vil. Clerk & Supt., Chas. Leinard.. "
Engr. P'g. Sta., O. C. Evans..... "

Springs & well, 32-ft. in diam.; ¾ mi. from center business section; reservoirs, three 110,000 gal.

Boiler, 18-hp. 90 lb. Gem 1903; pumps, 1-76,800 gal. hor. simple c. & f. wh. 1912, 1-60,000 gal. vert. simple c. & f. wh. 1904; pumping to reservoir, 75,000 gal.

Pipe, 0.75 mi. 2½-in.; hyd. 16, hose con. 2½-in.; valves, 12 r. & l. h. opening; meters, 70 Pittsburgh; av. daily cons. 15,000 gal. 50%; serv. con. 75; ord. pres. 65 lb., fire pres. same.

Rates: flat, 50c. mo.; meter, 45c. 1,000 gal.

FREMONT, 9,939.

MUNICIPAL.

Dir. Pub. Serv., Gephart Sneider..Fremont
Sec., Ralph R. Williams..... "
Asst. Supt., Chas. A. Measley..... "

Sandusky River & wells, 6 tubular 300-ft. deed; reservoir, 2,000,000 gal.; no purification.

Boilers, 3 100-hp. June; pumps, 1-2,500,000 gal. Knowles, 1-3,000,000 gal. Platt; pumping direct & to standpipe, 365,000 gal. steel.

Pipe, 27 mi. 2 to 16-in. c. i.; hyd. 235 R. D. W. & Darling; valves, 125 Darling, Eddy & Ludlow; meters, 1850 various; av. daily cons. 750,000 gal.; serv. con. 2,366; ord. pres. 43 to 55 lb.

Rates: flat, min. $6 year; meter, 12c. 1000 gal. max., 6c. min.

GALION, 7,214.

GALION WATER CO.

Pres. & Treas., W. W. Miller.....Galion
Sec. & Supt., M. J. Breece..... "

Wells, 20 tubular 6 & 10-in. 100 ft. deep; near center distribution; reservoir, 1,500,000 gal.; no purification.

Boilers, 2 hor. tubular 80-hp. Atlas; hand stoking; pumps, 1-1,500,000 gal. Platt,

1-750,000 gal. Deane, 1-75,000 gal. Deane; elec. motor, 15-hp.; pumping direct for fires & to standpipe (1899) 156,000 gal. steel.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 170, hose con. 2½ & 4½-in. Chapman & Ludlow; valves, 50 r. h. opening Chapman; meters, 500 Thomson; av. daily cons. 500,000 gal.; serv. con. 1,500; ord. pres. 35 to 50 lb., fire pres. 80 to 100 lb.

Rates: flat, $6 year; closet $4; meter, min. charge $11 year, 25c. 1000 gal. max., 12c. min.

GALLIPOLIS, 5,560.

MUNICIPAL. Department of Public Serqice.

Dir., S. W. Wessemberg.....Gallipolis
Supt., James D. Oliver..... "
Engr. P'g. Sta., Evan Rothgev... "

Ohio River & wells, 4 artesian 48-in. 6 ft. deep; 1.5 mi. from center business section; natural sand filtration.

Boilers, hor. tubular 100-hp. 90 lb. Brownell 1908, hor. tubular 150-hp. 150 lb. McIlvain 1908; hand stoking; pumps, 2-750,000 gal. vert. comp. d. act. L-D-G. 1895; pumping to reservoirs, 2,500,000 gal.

Pipe, 14 mi. 4 to 16-in. c. i.; hyd. 96, hose con. 2½-in. Bourbon; valves, 73 l. h. opening; meters, 618 various; av. daily cons. 400,000 gal. 85%; serv. con. 1016; ord. pres. 115 to 130 lb., fire pres. same.

Rates: flat, $2 quarter, bath $1, closet $1; meter, min. charge $2 quarter 5,000 gal., 10c. 1,000 gal. max., 7c. min.

GARRETTSVILLE, 1,001.

MUNICIPAL.

Pres. Comrs., W. E. Agler.....Garrettsville
Comr., Geo. Higby..... "
Comr., C. M. Norton..... "
Supt., A. H. Ritter..... "

Wells, 12 tubular 6&10-in. 50 ft. deep; 1.5 mi. fro m center distribution; reservoir 150,000 gal.; settling basins, 4-12.5x12.5, ft.; slow sand filters, 84,000 gal.; aerating system.

Boiler, hor. tubular 40-hp. Atlas; hand stoking; pumps, 2-1,000,000 gal. American & Snyder-Hughes; gasoline engine, 2-hp. Alamo; pumping to reservoir, 367,000 gal.

Pipe, 5.5 mi. 4 to 10-in. c. i.; hyd. 49, hose con. 2½-in. Ludlow; valves, 35 l. h. thd. Ludlow; meters, 190 Pittsburgh; av. daily cons. 45,000 gal.; serv. con. 305; ord. pres. 50 to 67 lb., fire pres. same.

Rates: flat, $6 year; meter, 25c. 1000 gal.

GENEVA, 2,496.

MUNICIPAL. Board of Trustees of Public Affairs.

Trustee, Throop..... Geneva
" O. G. Kenyon..... "
" W. H. King..... "
Supt., W. W. Stocking..... "
Engr. P'g. Sta., John Harvey..... "

Grand River; 3 mi. from center distribution; mech. filters, 35,000 gal.; chemical, sulphate of alumina.

Pumps, 2-600,000 gal. triplex Deane driven by water-turbines, 75-hp. Gamon, one 64,000 gal. centrifugal driven by gasoline, 50-hp. New Era; pumping to reservoir, 2,800,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd., hose con. 3-in. R. D. W.; meters, 767 mostly Hersey & Buffalo; av. daily cons. 250,000 gal.; serv. con. 767; ord. pres. 85 lb.

Rates: all meter, 30c. 1000 gal.

GIBSONBURG, 1,864.

MUNICIPAL. Board of Public Affairs.

Pres., T. L. McMahon.....Gibsonburg
Mbr., H. J. Smith..... "
" E. F. Dunn..... "
Supt., Alvia Spangler..... "

Wells, 2 tubular 10-in. 190 & 311 ft. deep; reservoir, 85,000 gal.; no purification.

Pumps, 1-720,000 gal. Goulds driven by gasoline engines, 2 15&40-hp. Springfield; pumping to standpipe (1897) steel.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 56, hose con. 2½-in.; valves, 34 r. h. thd. Eddy; meters, 285; av. daily cons. 40,000 gal.; serv. con. 401.

GIRARD, 3,736.

THE GIRARD WATER CO.

Sup., Jerome Gray.....Girard

Wells, 7 tubular 6-in. 160 ft. deep; no purification.

Pumps, 1-167,000 gal. centrifugal Luitweiler driven by elec. motors, 5-hp. Westg. & air compressor driven by elec. motor, 35-hp. G. E.; av. daily cons. 138,000 gal.

GLENDALE, 1,741.

MUNICIPAL. Board of Public Affairs.

Pres., H. E. Igler.....Glendale
Mbr., Fred. Garber..... "
" Geo. Richter..... "
Cons. Engrs., Stegner,
Hughes & Alves.....Cincinnati, O.
Clerk, J. H. Feemster, Jr..... "

Wells, 4 tubular 8 to 10-in.120 to 160 ft. deep; 2 mi. from center distribution.

Boilers, 2 hor. tubular 75-hp. Brownell; hand stoking; pumps, 2-500,000 gal. ea. Gordon; pumping to standpipe (1892) steel.

Pipe, 10 mi. 4 to 12-in. c. & w. i.; hyd. 65, hose con. 2½-in. Ludlow & Bourbon; meters, 330 various; av. daily cons. 200,000 gal.; serv. con. 230; ord. pres. 20 to 75 lb., fire pres. 100 lb.

Rates: all meter, 30c. 100 cu. ft. max., 15c. min.

GLOUSTER, 2,527.

MUNICIPAL. Board of Public Affairs.

Pres., E. E. Williams.....Glouster
Mbr., John Rice..... "
" J. E. Mendew..... "
Engr. P'g. Sta., W. P. O'Donnell... "

Wells, 6 tubular 6-in. 60 to 90 ft. deep; reservoir, 93,500 gal.

Boilers, 2 fire-tube 150-hp. ea. Erie; pumps, 2-600,000 gal. L-D-G; pumping to reservoir, 160,000 gal.

Pipe, 4 mi. 6-in. c. i.; hyd. 35, hose con. 2½-in.; valves, 8 l. h. thd. various; meters, 30 various; av. daily cons. 50,000 gal.; serv. con. 118; ord. pres. 108 to 115 lb., fire pres. same.

Rates: meter, min. charge $5 year, 20c. 1000 gal.

GRAND VIEW HEIGHTS, 489.

MUNICIPAL. Board of Trustees of Public Affairs.

Pres., S. W. Higgs.....Grand View Heights
Mbr., M. S. Seivert.... " " "
Sec., W. E. Hague..... " " "

Buy water from the city of Columbus.

Pipe, 6 mi. 6 & 8-in.; hyd. 50; meters, 171 mostly Hersey; av. daily cons. 8,000 gal. 75%; serv. con. 171.

Rates: meter, $1.35 1000 cu. ft.

GRANVILLE, 1,394.

MUNICIPAL. Board of Public Affairs.

Pres., E. E. Wright.....Granville
Sec., W. E. Clemons..... "
Supt., Jos. S. Rodes..... "

Well, 180 ft. deep; near center distribution.

Boilers, 2 fire-tube 100-hp. Erie; pumps. 1-25,000 gal. McGowan; pumping to elev, tank, 95,000 gal. wood.

Pipe, 5 mi. 4-in. c. i.; hyd. 38, hose con. 2½-in. Bourbon; valves, 15; meters, 115 Pittsburgh & Buffalo; av. daily cons. 100,000 gal.; serv. con. 450; ord. pres. 30 to 107 lb., fire pres. 120 lb.

Rates; meter, $1.50 1,000 cu. ft.

GREENFIELD, 4,228.

MUNICIPAL. Board of Public Affairs.

Pres., A. S. Boden.....Greenfield
Mbr., H. T. Clyburn..... "
" G. H. Edwards..... "
Mgr., W. R. Gray..... "
Engr. P'g. Sta., L. O. Holaday.. "

Wells, 2 open 8x16 ft. & 8x22 ft., 9 & 13 ft. deep; near center distribution; natural sand filtration.

Boilers, 2 water-tube 350-hp. Sterling; hand stoking; pumps, 1-1,750,000 gal. L-D-G., 1-1,500,000 gal. Platt; pumping direct & to standpipe (1892) iron.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 85; valves, 30; av. daily cons. 550,000 gal.; serv. con. 600; ord. pres. 80 lb., fire pres. 110 lb.

Rates: flat, min. $5 year; meter, min. charge 50c. mo., 25c. 1000 gal. max., 5c. min.

GREENVILLE, 6,237.

MUNICIPAL.

Dir. Pub. Serv., D. W. Shively..Greenville
Supt., John P. Lucas..... "

Wells, 14-54 ft. deep; no purification.

Boilers, 2 100-hp. Gem 125 lb.; pumps, comp. duplex Hughes; pumping direct & to standpipe, 140,000 gal. brick & steel.

Pipe, 18 mi. c. i.; hyd. 148 Bourbon; valves, 165 Ludlow, Smith & Bourbon; meters, 1400 Neptune, National, Hersey & Buffalo; av. daily cons. 500,000 gal.; serv. con. 1804; ord. pres. 60 lb.

Rates: meter, min. charge $2.50, 7½c. 100 cu. ft.

GREENWICH, 876.

MUNICIPAL. Board of Public Affairs.

Clerk, F. H. Daniel..... Greenwich
Engr. P'g. Sta., G. A. Mosher... "

Impounding reservoir, 15,000,000 gal.; ½ mi. from center distribution.

Boilers, 3 hor. 350-hp. Erie; hand stoking; pumps, 1-750,000 gal. McGowan; pumping to standpipe (1899) iron.

Pipe, 5 mi. 4 to 12-in.; hyd. 23, hose con. 3½-in. Bourbon; meters, 84 Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 84; ord. pres. 35 to 50 lb., fire pres. 80 to 85 lb.

Rates: meter, min. charge $3 year, 20c. 1000 gal.

HAMILTON, 5,279.

MUNICIPAL.

Supt., S. D. Nelson.....Hamilton
Ch. Clerk, E. J. Weinman..... "
Cons. Engr., Jno. W. Hill,
506 First Ntl. Bk. Bldg., Cincinnati, O.
Engr. P'g. Sta., W. J. Conkley....Hamilton

Wells, 22 tubular 6 & 8-in. 100 to 180 ft. deep; 2 mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 3 water-tube 250-hp.; mech. stoking; pumps, 1-7,000,000 gal.; elec. motors, 85-kw. 2200 v. 3 ph. 60 cys. G. E.; pumping direct & to reservoir, 14,000,000 gal.

Pipe, 60 mi. 4 to 20-in. c. i.; hyd. 600, hose con. 2½-in. mostly Bourbon; valves, r. & l. h. thd.; meters, 4800 various; av. daily cons. 2,500,000 gal,; serv. con. 6,400; ord. pres. 60 to 110 lb., fire pres. same.

Rates: meter, $1.20 1000 gal. max., 45c. min.

HICKSVILLE, 2,395.

MUNICIPAL. Board of Public Affairs.

Mbr. O. V. Hart.....Hicksville
" D. B. Miller..... "
" C. W. Zeis..... "
Clerk, R. C. Griffith..... "
Engr. P'g. Sta., Harvey Greer.... "

Wells, 10 tubular 3 to 10-in. 60 to 625 ft. deep; near center distribution.

Boilers, 2 hor. Mansfield; pumps, 2-345,000 gal.; pumping direct.

Hyd. 39, hose con. 3-in.; valves, 2 l. h. thd.; av. daily cons. 125,000 gal.; ord. pres. 20 to 50 lb., fire pres. 70 to 90 lb.

HOLGATE, 1,095.

MUNICIPAL.

Vil. Pres., F. Smith..... Holgate
Chmn. Comrs., F. Binges..... "
Sec., O. P. Line..... "
Supt. & Engr. P'g. Sta., E. M. Ball "

Boilers, 2 hor. 80-hp. Erie; hand stoking; pumps, 1-46,000 gal. Platt gasoline engines, 110-hp. Erie; elec. motors, 75 kw.

110 v. s. ph. 60 cys. Wayne; pumping to reservoir, 42,000 gal. brick.

Pipe, 3 mi.; hyd. 19, hose con. 2-in.; valves, r. h. thd.; meters, 100 Pittsburgh; av. daily cons. 875,000 gal.; serv. con. 125; ord. pres. 45 lb., fire pres. 90 lb.

HURON, 1,756.

MUNICIPAL. Board of Public Affairs.
Pres., F. F. McCormick.....Huron
Mbr., H. H. Hull..... "
" A. J. Gustavus..... "
Supt., J. C. Britton..... "
Cons. Engrs., Chapin & Knowles, 2548 Oliver Bldg., Pittsburgh, Pa.

Lake Erie; ½ mi. from center distribution; settling & coagulating basins, 26x18x 25 ft.; mech. filters, 500,000 gal.; chemical, sulphate of alumina.

Boilers, 3 Scotch & return tubular, 250-hp. Connelly; hand stoking; pumps, 2-500,000 gal. McGowan & Lawrence; pumping to elev. tank, 100,000 gal. steel.

Pipe, 8 mi. 4 to 12-in.; hyd. 46, hose con. 2½-in. Kennedy; valves, 42 r. h. thd. Kennedy; meters, 3 Thomson; av. daily cons. 75,000 gal.; serv. con. 245; ord. pres. 40 to 52 lb., fire pres. 70 to 120 lb.

Rates: flat, $5 year, bath $1.50, closet $2; meters, min. charge $1.35 quarter, 15c. 1,000 gal. max., 6c. min.

JACKSON, 5,468.

JACKSON WATER SUPPLY CO.
Pres., J. W. Brumway.....Scranton, Pa.
Sec., Wallace Ruth..... "
Treas., Arthur H. Christy..... "
Supt., M. Berlin.....Jackson

Wells, 13 artesian 8-in. 120 ft. deep; 6.5 mi. from center distribution; no purification.

Boilers, 2 hor. tubular 100-hp.; hand stoking; pumps, 2-250,000 gal. L-D-G; pumping to standpipe (1900) 265,000 gal. iron.

Pipe, 15 mi. 4 to 12-in.; hyd. 96, hose con. 2½-in. Eddy; 65 r. h. thd. Eddy & Crane; meters, 260 Hersey, Neptune & Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 710; ord. pres. 95 lb., fire pres. same.

Rates: flat, $6 year, bath $6, closet $4; meter, min. charge $10 year, 35c. 1,000 gal. max., 15c. min.

JOHNSTOWN, 805.

MUNICIPAL. Board of Public Affairs.
Pres., C. V. Armstrong..... Johnstown
V. Pres., H. A. Bishop..... "
Mbr., J. C. Needles..... "
Sec., E. H. Crawford..... "

Wells, 2 tubular 4 & 6-in. 187 & 224 ft. deep; ¾ mi. from center business section; reservoir, 60,000 gal.; no purification.

Boilers, hor. tubular 50-hp. 90 Brownell 1903, 2 hor. tubular 60-hp. ea. 90 lb. Mansfield 1903; gas fuel; pumps, 1-500,000 gal. hor. comp. d. act. McGowan 1904, 1-2000 gal. hor. triplex d. act. McGowan 1903; air compressor, Ingersoll-Sargent 1914 steam driven; steam engine, 60-hp. Mansfield 1904; pumping to elev. tank (1903) 40,000 gal.; iron, Chicago Bridge & Iron Works.

Pipe, 3.5 mi. 4 to 10-in. c. i.; hyd. 21, hose con. 2½-in. Bourbon; valves, 30 l. h. opening Crane; meters, 136 Pittsburgh; av. daily cons. 17,000 gal. 90%; serv. con. 157; ord. pres. 44 to 47 lb., fire pres. 80 to 150 lb.

Rates: meter, min. charge $1.50 quarter 5000 gal., 30c. 1000 gal.

KENT, 4,488.

KENT WATER & LIGHT CO. (Controlled by New Jersey General Security Co., 158 Ellison St., Paterson, N. J.)
Pres., E. LeB. Gardner..... Paterson
Sec., & Treas., Whitney Conant.. "
Des. Engr., A. W. Cuddeback.... "
Supt., S. F. Messer.....Kent
Engr. P'g. Sta., R. O. Pratt..... "

Wells, 12 artesian 6 & 8-in. 50 ft. deep; one mi. from center distribution.

Boilers, 3 return tubular 500-hp. Biggs; hand stoking; pumps, 3-3,000,000 gal. Holly & Bethlehem; pumping to standpipe (1888) iron.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 95. hose con. 2½-in. Holly & R. D. W.; valves, 120 various; meters, 650 various; av. daily cons. 400,000 gal.; serv. con. 1000; ord. pres. 80 to 100 lb., fire pres. same.

Rates: meter, 20c. 1000 gal. max., 10c. min.

KENTON, 7,185.

MUNICIPAL.
Supt., Victor May..... Kenton

LAKESIDE, 425.

THE LAKESIDE CAMPMEETING ASS'N.
Pres., R. B. Heller..... Lakeside
Treas., H. C. Hopkins..... "
Supt., H. B. Jones..... "
Engr. P'g. Sta., Edward J. Eberly "
Chemist, Walter Russell..... "

Lake Erie; ¼ mi. from center distribution; settling & coagulating basins, 43,000 gal.; mech. filters, 252,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, one 360,000 gal. Weinman driven by elec. motors, 220 v. 3 ph. 60 cys. Richmond; elec. energy from Marblehead Power Co.; pumping to reservoir.

Pipe, 0.75 mi. 4 to 12-in. w. i.; hyd. none; meters, none; serv. con. 500.

LAKEWOOD, 15,181.

MUNICIPAL.
Supt., E. I. Lieblein.....Lakewood

Buy water from city of Cleveland. Are considering a municipal system.

LANCASTER, 13,093.

MUNICIPAL.
Supt., John M. King..... Lancaster
Engr. P'g. Sta., S. Schaeffer..... "
Clerk, G. C. Stebletar..... "

Wells, 6 tubular 5-in. 90 to 100 ft. deep; near center distribution; no purification.

Boilers, 2 hor. tubular 100-hp. Fulton; natural gas fuel; pumps 2-2,000,000 gal. ea. McGowan; pumping to reservoir, 2,500,000 gal.

Pipe, 23 mi. 4 to 16-in. c. i.; hyd. 189, hose con. 2½ in. Eddy, Bourbon, Roe-Stephens & Chapman; valves, 227 l. h. opening & Roe-Stephens; meters, 1700 mostly Pittsburgh; av. daily cons. 1,200,000 gal.; serv. con. 2100; ord. pres. 120 lb., fire pres. same.

Rates: meter, 10c. 1000 gal. max., 5c. min.

LEBANON, 3,698.

MUNICIPAL.

City Engr., Roy E. Miller..... Lebanon

LEESBURG, 838.

MUNICIPAL.

Supt., C. E. Davey.....Leesburg
Engr. P'g. Sta., Ben Elliott..... "

Wells, 5 tubular 6-in. 100 to 400 ft. deep; near center distribution; reservoir, 33,000 gal.; no purification.

Pump driven by gasoline engines, 60-hp. Columbus; pumping to standpipe (1900) steel.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 27, hose con. 3-in.; meters, 85 Neptune & Thomson; av. daily cons. 40,000 gal.; serv. con. 85; ord. pres. 60 lb., fire pres. 125 lb.

Rates: meter, 40c. 1000 gal.

LEETONIA, 2,665.

MUNICIPAL.

Pres. Trustees, Jno. A. Greenamyer, Leetonia
City Engr., R. R. Stockwell..... "

LEIPSIC, 1,773.

MUNICIPAL. Board of Public Affairs.

Pres., W. A. Bell.....Leipsic
Mbr., C. W. Fogle..... "
Mbr., J. A. Larson..... "
Sec., E. C. Kuntz..... "

Wells, 9 550 to 625 ft. deep; ½ mi. from center business section; settling basin, 250,000 gal.

Pumps, one duplex McGowan, 9-65,000 gal. ea. hor. single Goulds 1904 & 1913, belted to elec. motors, 9 7-hp. ea. G. E., 2-325,000 gal. hor. centrifugal Worth. 1910 & 1914 d. con. to elec. motors, 20-hp. G. E.; elec. energy from J. W. Cottingham, of Leippsic; puming to standpipe (1900) 50,000 gal.

Pipe, 5 mi. 4 to 10-in. c. & w. i.; hyd. 48, hose con. 3-in.; valves, 23 l. h. opening; meters, 430 Hersey, Gamon & Pittsburgh; av. daily cons. 325,000 gal. 85%; serv. con. 530; ord. pres. 50 lb., fire pres. 125 lb.

Rates: flat, $6 year, bath $2, closet $3; meter, min. charge $3 year 10,000 gal., 30c. 1000 gal.

LEWISBURG, 672.

MUNICIPAL.

Pres. Comrs., E. T. Paul.....Lewisburg
Comr., C. W. Pontius..... "
" J. A. Rhinehart..... "
Supt. & Engr. P'g. Sta.,
Gus Wilson..... "
Cons. Engr., J. W. Hill,
506 First Nat'l Bank Bldg., Cincinnati.

Wells, 3 tubular 60 ft. deep; near center distribution.

Pumps, 2-622,000 gal. simplex Platt d. con. to gasoline engines, 240-hp. Foos; pumping to elev. tank (1909) 55,000 gal. steel.

Pipe, 4 to 10-in. c. i.; hyd. 48, hose con. 3-in.; valves, 38 l. h. thd. Bourbon; meters, 200 National; av. daily cons. 55,000 gal.; serv. con. 200.

Rates: meter, min. charge $8 year, 15c. 1000 gal.

LIMA, 30,508.

MUNICIPAL.

Dir. Pub. Serv., A. L. Metheany..... Lima
Supt., Joseph Askins..... "

Impounding reservoirs on Ottawa River; 2-75,000,000 gal.; 1.5 mi. from center distribution; chemical, liquid chlorine.

Boilers, 4 300-hp. Brownell; hand stoking; pumps, 2-3,000,000 gal. Holly, 1-1,000,000 gal. Snow; pumping direct & to reservoir, above.

Av. daily cons. 3,500,000 gal.; serv. con. 8,000; ord. pres. 40 to 60 lb., fire pres. 60 to 75 lb.

LISBON, 3,084.

MUNICIPAL. Board of Public Affairs.

Chmn., W. L. Ogden.....Lisbon
Mbr., J. R. Morris..... "
" Geo. Roger..... "
Clerk, W. M. Ferrell..... "
Supt., H. J. Hollinger..... "

Wells, 12 tubular 10-in. 250 ft. deep; one mi. from center business section.

Boilers, 2 hor. tubular 125-hp. ea. Erie; hand stoking; pumps, 2-1,000,000 gal. ea. Worth.; pumping direct & to reservoir, 350,000 gal.

Pipe, 8.2 mi. 4 to 10-in. c. i.; hyd. 70, hose con. 2½-in.; valves, 16 r. & l. h. thd.; meters, 590; av. daily cons. 300,000 gal.; serv. con. 571; ord. pres. 40 to 120 lb., fire pres. same.

Rates: meter, min. charge $1.50 quarter, $2 for 1000 cu. ft. max., 65c. min.

LODI, 1,015.

MUNICIPAL.

City Pres., C. L. V. Williams.....Lodi
City Clerk, H. A. Howe..... "
Engr. P'g. Sta., C. Cunningham..... "

Wells, one 3-ft. in. diam. 20 ft. deep, one 8-in. 60 ft. deep; ½ mi. from center distribution; slow sand filters, 10,000 gal.

Pumps, 2 360,000 gal. National d. con. to gas engines, 30-hp. St. Mary's; pumping to elev. tanks (1912) 60,000 gal steel.

Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 3-in.; meters, 100 Buffalo & Westg.; av. daily cons. 40,000 gal.; serv. con. 106; ord. pres. 70 lb., fire pres. same.

Rates: flat, $5 year; meters, 25c. 1000 gal. max., 15c. min.

LOGAN, 4,850.

MUNICIPAL.

City Engr., R. Bowen..... Logan

LONDON, 3,530.
LONDON WATER CO.
Supt., E. P. Fisher ..... London
Artesian wells, 5 tubular 8 & 6-in. 170 to 175 ft. deep; no purification.
Pumps, 1-1,000,000 gal. hor. comp. c. & f. wh. L-D-G 1904, 1-1,500,000 gal. Gordon, 1-570,000 gal. comp. duplex Gordon; air lifts, Harris; av. daily cons. 543,000 gal.

LOUISVILLE, 1,678.
MUNICIPAL.
Pres. Comrs., Chas. Heffelbower...Louisville
Comr., Jos. Folk..... "
" A. J. Montes..... "
Supt. & Engr. P'g. Sta.,
A. L. Evard..... "
Wells, 5 tubular 6-in. 120-ft. deep; near center distribution; no purification.
Boilers, 2 hor. tubular 70-hp. Brownell; hand stoking; pumps, 2-500,000 gal. duplex Wagner; pumping direct & to standpipe (1895) steel.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 2½-in. Ludlow; valves, 12 l. h. thd. Ludlow; meters, 6 National & Pittsburgh; av. daily cons. 85,000 gal.; serv. con. 500; ord. pres. 45 to 60 lb., fire pres. 80 to 100 lb.

LYNCHBURG, 923.
BOARD OF PUBLIC AFFAIRS.
Pres., W. D. Pent..... Lynchburg
V. Pres., T. S. Simkins..... "
Mbr., J. H. Kesler..... "
Sec., H. B. Galliett..... "
Supt., C. W. Morrow..... "
Engr. P'g. Sta., J. A. Wonell.... "
Springs & reservoir, 60,000 gal.; 1.5 mi. from center business section.
Boilers, hor. tubular 100-hp. 95 lb. Alfree 1893, hor. tubular 80-hp. 75 lb. Atlas 1893; hand stoking; pumps, 1-500,000 gal. hor. simple d. act. L-D-G 1893; steam engine, 96-hp. H. O. R. 1907; pumping to elev. tank (1893) 50,000 gal. steel.
Pipe, 4 mi. 2 to 8-in. c. & w. i.; hyd. 22, hose con. 2½-in. Bourbon; valves, 19 l. h. opening Crane; meters, 32 Neptune; av. daily cons. 60,000 gal. 80%; serv. con. 210; ord. pres. 38 to 40 lb., fire pres. 75 to 125 lb.
Rates: flat, $4 year, bath $2.50, closet $2.50; meter, $1 quarter 1500 gal., 20c. 1000 gal.

McCONNELLSVILLE, 1,831.
MUNICIPAL.
Supt., C. W. Kennedy.....McConnellsville

MALVERN, 753.
MUNICIPAL. Board of Public Affairs.
Pres., S. F. Potten.....Malvern
Mbr., Joseph Keffler..... "
" Carl Wright..... "
Village Clerk, L. D. Clocz..... "
Cons. Engr., W. J. Phillip.....Toledo
Engr. P'g. Sta., G. W. Schooley..... "
Wells, 3 tubular 8-in. 120 ft. deep.
Pumps, 1-320,000 gal. vert. triplex Cleveland 1912; pumping to standpipe (1912) 150,000 gal.
Pipe, 2.5 mi. 4 to 10-in. c. i.; hyd. 30, hose con. 2½-in. Darling; valves, 12 r. h. opening; meters, 91 Pittsburgh; av. daily cons. 4000 gal.; serv. con. 93; ord. pres. 50 to 75 lb., fire pres. 50 to 100 lb.
Rates: meter, min. charge $1.50 quarter 10,000 gal., 15c. 1000 gal.

MARIETTA, 12,923.
MUNICIPAL.
Supt., W. M. Morse.....Marietta
Comr., Jos. W. Frye..... "
Ohio River; mech. filters, 4,000,000 gal. Norwood 1905.
Pumps, 2-5,000,000 gal. ea. Lawrence, 1-2,500,000 gal. Snyder-Hughes, 1-4,000,000 gal. comp. d. act.; av. daily cons. 2,500,000 gal.

MARION, 18,232.
MARION WATER CO.
Pres., W. E. Schofield..... Marion
V. Pres. & Treas., J. M. Pendergast "
Sec., W. S. Probst..... "
Supt., P. Kelly..... "
Wells, 12 tubular 6 & 200 ft. deep; no purification.
Pumps, 2-1,500,000 gal. ea.; air lifts: av. daily cons. 1,500,000 gal.

MARTINS FERRY, 9,133.
MUNICIPAL.
Dir. Serv., Brock Brown.....Martins Ferry
Wells, 28 12-in.; no purification.
Pumps, 1-4,000,000 gal. Worth.; av daily cons. 3,800,000 gal.

MARYSVILLE, 3,576.
MARYSVILLE LIGHT & WATER CO.
Pres., Thos. W. Sharrer.....Marysville
V. Pres., Chas. Braun..... "
Sec., J. M. Lentz..... "
Treas., W. C. Fullington..... "
Supt., Mayne Mackan..... "
Engr. P'g. Sta., Frank Mackan.. "
Wells, 5 tubular 10-in. 230-ft. deep; ½ mi. from center distribution.
Boilers, 3 water-tube 8-hp. 2 Heine & one Wickes; hand & mechanical stoking, Murphy; pumps, 3-3,500,000 gal. 2 McGowan & one L-D-G; pumping direct.
Av. daily cons. 1,300,000 gal.; serv. con. 600; ord. pres. 40 to 45 lb., fire pres. 100 to 110 lb.

MASSILLON, 13,897.
MASSILLON WATER SUPPLY CO. (Controlled by New Jersey General Security Co., 158 Ellison St., Paterson., N. J.)
Pres., E. LeB. Gardner..... Paterson
Sec. & Treas., Whitney Conant... "
Des. Engr., A. W. Cuddeback.... "
Supt., A. W. Inman.....Massillon
Wells, 12 artesian 300-ft. deep; no purification.
Boilers, 3 tubular 100-hp. & two 125-hp. ea. Erie; pumps, 1-200,000,000 gal. Blake, 1-1,500,000 gal. Bethlehem, 1-1,000,000 gal. Deane; pumping to reservoir, 25,000,-000 gal. & standpipe, 550,000 gal. iron.

Pipe, 30 mi. 4 to 16-in. c. i.; hyd. 311 Ludlow; valves, 225 Ludlow; meters, 1111 Thomson & Gamon; av. daily cons. 900,000 gal.; ord. pres. 75 lb.

Rates: flat, $5.20 year, bath $2.50, closet $2.70; meter, min. charge $10 year, 20c. 1000 gal. max., 12c. min.

MEDINA, 2,734.

MUNICIPAL. Board of Public Service.

Pres., E. R. Root ..... Medina
V. Pres., Geo. Shane ..... "
Mbr., A. D. Aylard ..... "
Supt. & Engr. P'g. Sta., F. L. Rollins "

Rocky River; 2.5 mi. from center distribution; natural sand filters.

Pumps, 1-144,000 gal. Deming, 1-360,000 gal. Deming driven by gasoline engines, 2 25 & 40-hp. Columbus & McBeth; pumping direct & to standpipe, iron.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 56, hose con. 3-in. Michigan & Darling; valves, 60 r. & l. h. thd.; meters, 475 Thomson; av. daily cons. 150,000 gal.; serv. con. 500; ord. pres. 30 to 42 lb., fire pres. same.

Rates: meter, 25c. 1000 gal.

MIDDLETOWN, 13,152.

MUNICIPAL.

Supt., John Busseer ..... Middletown
City Engr., W. D. Morrison. .. "
Treas., John D. Crist ..... "
City Clerk, John Kunz ..... "

Wells, 6 tubular 12-in. 22 ft. deep & one open 25 ft. in diam. 35 ft. deep.

Boilers, one water-tube 150-hp. Keeler, 2 return tubular 80-hp. ea. Brownell; hand stoking; pumps, 4-7,500,000 gal. Holly & Platt; driven by water-turbines; pumping direct.

Pipe, 26 mi. 4 to 16-in. c. i.; hyd. 285, hose con. 2½-in. Bourbon & Holly; meters, 2000 Hersey, Thomson & National; av. daily cons. 2,850,000 gal.; serv. con. 3200; ord. pres. 60 to 70 lb., fire pres. 90 to 110 lb.

Rates: flat, $4.40 year, bath $2.75; meters, min. charge $1.10 quarter 1000 cu. ft. max., 60c. min.

MILFORD, 1,321.

MUNICIPAL.

Pres. Comrs., W. E. Motsinger ..... Milford
Mbr., Charles Adams ..... "
" L. M. Clark ..... "
Clerk, S. F. Gatch ..... "
Supt. & Engr. P'g. Sta., Ray Erion. "

Wells, 3500 ft. from center distribution.

Boilers, 2 hor. tubular 100 to 125-hp. Tudor & Atlas; hand stoking; pumps, 3-720,000 gal. Platt; pumping direct & to standpipe (1913) 100,000 gal. concrete.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 2½-in. Bourbon; valves, 53 r. h. thd. Bourbon; meters, 10 National; av. daily cons. 267,000 gal.; serv. con. 334; ord. pres. 80 to 115 lb., fire pres. same.

Rates: flat, $4 year; meter, 15c. 1000 gal.

MILLERSBURG, 2,202.

MUNICIPAL. Board of Public Service.

Trustee, L. Farlow ..... Millersburg
" David Franks ..... "
" Chas. Spohn ..... "
Sec., Louis Miley ..... "
Supt., Wm. Crow ..... "

Wells, 2 30 ft. diam. 26 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 2 60-hp. ea. Erie 140 lb. hand; stoking; pumps, 2 hor. d. act. Platt & McGowan, one vert. triplex Deane d. con. to elec. motor, 60-hp. 3 ph. 60 cys. Westg.; pumping to reservoir, 300,000 gal.

Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 52, hose con. 2½-in.; valves, 35 l. h. opening Eddy; meters, 2 Pittsburgh; av. daily cons. 400,000 gal.; serv. con. 500; ord. pres. 25 to 120 lb., fire pres. 40 to 120 lb.

Rates: flat, $4.00 year, bath, $2.00, closet $2.00; meter, 10c. 1000 gal. max., 4.5c. min

MINERAL CITY, 1,132.

MUNICIPAL.

Supt., Ralph J. Zimmer ..... Mineral City

MINERVA, 1,396.

MUNICIPAL. Board of Public Works.

Mbr., A. F. Bory ..... Minerva
" Wm. Goty ..... "
" W. R. Kurtz ..... "
Supt.. H. W. Speakman ..... "
Vil. Clerk, A. H. Freed ..... "

Artesian wells; gravity distribution from tanks, 100.000 gal.; av. daily cons. 100,000 gal., ord. pres. 65 lb.

MINGO JUNCTION, 4,049.

MINGO JUNCTION WATER COMPANY. (Controlled by American Water Works & Electric Co., 50 Broad Street, New York, N. Y.)

Pres., A. M. Lynn ..... New York, N. Y.
V. Pres., D. M. Watt .... " " "
Chief Engr.,
G. W. Biggs, Jr. ..... " " "
Supt., C. M. Dutton ..... Mingo Junction

Ohio River; ½ mi. from center business section; no purification.

Boilers, hor. tubular 100-hp. Union; hand stoking; pumps, 2-1,700,000 gal. Deming belt driven from gas engine, 125-hp. Westg.; pumping direct & to reservoir, 60 ft. diam. 90 ft. deep.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Kupferle; valves, 33; meters, 9 Neptune & Pittsburgh; av. daily cons. 450,000 gal.; serv. con. 68; ord. pres. 125 lb., fire pres. same.

Rates: meters, 25c. 1000 gal.

MINSTER, 1,583.

MUNICIPAL.

Supt. H. B. Sage ..... Minster

Well, 8-in. 240 ft. deep; near center distribution; settling basin, 285,000 gal.

Pumps, 3-150,000 gal. Weinman & 2 Dayton; elec. motors, 60 kw. 230 v. d. c.; elec. energy from Municipal Light Plant; pumping to elev. tank, 50,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. Ludlow; valves, 24 Crane & Ludlow; meters, 85 Worth. & Pittsburgh; av. daily cons. 75,000 gal.; serv. con. 85; ord. pres. 60 lb., fire pres. 100 lb.

Rates: meter, 20c. 1,000 gal. max.. 7½c. min.

MONTPELIER, 2,759.

MUNICIPAL.

Pres. Comrs., D. A. Len.....Montpelier
Mbr., O. E. Miller..... "
Mbr., F. L. Waterston..... "
Mbr., Ed. Hall..... "
Supt. & Engr. P'g. Sta.,
A. E. Waymoir..... "

Wells, 6 tubular 8 & 10-in. 100 to 135 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 3 150-hp. ea. McNaull & Sterling; hand stoking; pumps, 1-1,000,000 gal. McGowan, 2-500,000 gal. Worth.; air lifts; pumping to standpipe (1895) steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Ludlow; valves, 25 r. h. thd. Ludlow; meters, 225 Pittsburgh, Thomson, Worth, Gamon; av. daily cons. 400,000 gal.; serv. con. 725; ord. pres. 35 to 45 lb., fire pres. 80 to 100 lb.

Rates: meter. 30c. 1000 gal. max., 5c min.

MT. GILEAD, 1,673.

MT. GILEAD WATER, LIGHT, HEAT & POWER CO.

Pres., Mark Cook.....Mt. Gilead
V. Pres., C. L. Russell..... " "
Sec., Treas. & Mgr.,
W. E. Miller..... " "
Chief Engr., W. E. Braden..... " "

Wells, 2 tubular 4 & 8-in.; pumps, 2 Deane pumping direct; av. daily cons. 100,000 gal.

MT. STERLING, 1,071.

MUNICIPAL.

Pres. Comrs., O. Mendenhall. .Mt. Sterling
Sec., J. S. Core..... " "
Supt., Geo. A. Sypherd..... " "

Wells, 2 tubular 6-in. 167 & 173 ft. deep; reservoir, 169,000 gal.; no purification.

Boilers, 3 fire-tube 100-hp. ea. Phoenix; natural gas fuel; pumps, 2-500,000 gal. McGowan; pumping direct.

Pipe, 5 mi. 4 to 12-in.; hyd. 35, hose con. 2-in. Ludlow; valves, r. h. thd. Ludlow; meters, 308 Pittsburgh; ord. pres. 40 to 50 lb., fire pres. 80 to 110 lb.

Rates: meter, min. charge $1.25 quarter 5.000 gal., 35c. 1000 gal.

MT. VERNON, 9,087.

MUNICIPAL.

Supt., U. G. Pickard.....Mount Vernon

NAPOLEON, 4,007.

MUNICIPAL.

Pres. Trustees, F. W. Reiter..... Napoleon
Trustee, A. E. Augenstein..... "
Trustee, P. H. Reichert..... Napoleon
Sec., M. V. Makison..... "
Supt., D. O. Hull..... "

Maumee River; ½ mi. from center distribution; no purification.

Boilers, 3 200-hp. Sterling; mech. stoking, Jones; pumps, 2-1,000,000 gal Platt; pumping to standpipe (1894) steel.

Pipe, 12 mi. 4 to 12-in.; hyd. 107, hose con. 2½-in; meters, 615 Neptune; av. daily cons. 500,000 gal.; serv. con. 615; ord. pres. 40 to 50 lb., fire pres. 50 to 100 lb

Rates: meter, 11c. 100 cu. ft. max., 5c. min.

NAVARRE, 1,357.

MUNICIPAL. Board of Public Affairs.

Pres., J. N. Carl..... .....Navarre
Mbr., Frank Foltz..... "
Mbr., B. E. Miller..... "
Sec., E. H. Garver..... "
Supt., Clarence Brindle..... "
Cons. Engr., L. E. Chapin.....Canton, O.

Wells, 2 tubular 4-in. 75 ft. deep; one mi. from center distribution.

Pumps, 1-360,000 gal. centrifugal Luitweiler d. con. to elec. motors, 250 kw. 220 v. 3 ph. 60 cys. Westg.; elec. energy from Massillon Elec. & Gas Co.; pumping to elev. tanks (1912) 60,000 gal. steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 49, hose con. 2½-in. Kennedy; valves, 50 l. h. thd. Kennedy; meters, 2 Pittsburgh; av. daily cons. 75,000 gal.; serv. con. 153; ord. pres. 60 to 80 lb., fire pres. 80 to 125 lb.

NELSONVILLE, 6,082.

MUNICIPAL.

Dir. Pub. Serv., C. C. Sharp....Nelsonville

Wells, 11 tubular 8-in. 35 ft. deep; no purification.

Pumps, 2-432,000 gal. comp. Gordon; av. daily cons. 400,000 gal.

NEW BREMEN, 1,586.

THE NEW BREMEN MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Pres. Bd. Pub. Affairs,
F. W. Rabe.....New Bremen
V. Pres., Wm. Schwepe..... " "
Mbr., J. H. Grothaus..... " "
Clerk, E. R. Haines..... " "
Supt., John Scheer..... " "

Wells, 3 tubular 8-in. 90 ft. deep; near center distribution; reservoir, 200,000 gal.

Boiler, hor. tubular 125-hp. Brownell; hand stoking; pumps, 2-432,000 gal. McGowan, 1-432,000 gal. d. con. to elec. motor, 25 kw. 440 v. 3 ph. 25 cys.; elec. energy from Western Ohio Power Co.; pumping to elev. tank, 40,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 44, hose con. 3-in.; valves, one r. h. thd.; meters, 300; av. daily cons. 120,000 gal.; serv. con. 225; ord. pres. 47 lb., fire pres. 47 to 100 lb.

Rates: meter, min. charge $7 year, 12½c. 1,000 gal. max., 7c. min.

NEW VIENNA, 793.

MUNICIPAL. Board of Public Affairs.

Pres., J. F. Schuler.....New Vienna

V Pres., W. R. Pemberton.....New Vienna
Sec., Geo. Neffner..... " "
Engr. P'g. Sta., C. Pennywitt.. " "

Artesian wells, ½ mi. from center distribution.

Boilers, 2 hor. tubular 125-hp. Erie; hand stoking; pumps, 2-85,000 gal. comp. duplex McGowan; elec. motors, 2200 v. s. ph. 60 cys. F. Wayne; pumping direct & to standpipe (1902) steel.

Pipe. 2 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 3-in.; valves, l. h. thd.; av. daily cons. 20,000 gal ; serv. con. 100; ord. pres. 55 lb., fire pres. 200 lb.

NEWARK, 25,404.

MUNICIPAL. Board of Public Service.
City Engr., Charles H. Wells.....Newark
Supt., George Buchanan..... "
Cons. Engrs.,
The W. J. Sherman Company....Toledo

Licking River & infiltration tunnels.

Boilers, 2 water-tube 200-hp. Atlas 1907; pumps, 2-5,000,000 comp. duplex c. & f. wh. Platt 1907; pumping direct & to reservoir, 2,500,000 gal.

Pipe, 74.4 mi. 4 to 16-in. c. i.; hyd. 603, mostly Bourbon; valves, 793; av. daily cons. 2,175,000 gal.; ord. pres. 77 to 122 lb.

NILES, 8,361.

MUNICIPAL.
Supt., Bert Holloway..... Niles
Chemist, G. R. Patton..... "

Mahoning River; ¾ mi. from center distribution; settling basins, 1,000,000 gal.; mechanical filters, 3.000.000 gal.; chemicals, liquid chlorine, sulphate of alumina & soda ash.

Pumps, 2-1,000,000 gal. De Laval d. con. to elec. motors, 275-h.p 440 v. 3 ph. 60 cys. Wiley; elec. energy from Trumbull Public Service Co.; pumping to reservoir, one 500,000 gal.

Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 200, hose con. 2½-in.; valves, 100 r. h. thd.; meters. 100; av. daily cons. 1,000,000 gal.; serv. con. 2,000; ord. pres. 20 to 90 lb., fire pres. 20 to 110 lb.

Rates: flat, including bath & closet $12.50 year; meter, min. charge. 83c. mo., $3 1000 cu. ft. max., 45c. min

NORTH BALTIMORE, 2,503.

THE NORTH BALTIMORE WATER & ELECTRIC CO.
Pres., R. E. Milbourn.....No. Baltimore
V. Pres. & Gen. Mgr.,
Geo. A. Harrop..... " "
Sec & Treas.,
W. H. McMillen..... " "
Engr., Abner Baltz..... " "

Wells, 6 tubular 4-in. 125 to 135 ft. deep; near center distribution; reservoir, 1,000,000 gal.; no purification.

Boilers, 2 tubular 80-hp. ea. Mansfield; hand stoking; pumps, 2-500,000 gal. ea. L-D-G; gas engines, 15-hp. Columbus; pumping to standpipe (1901) iron.

Pipe, 6.25 mi. 4 to 12-in. c. i.; hyd. 82, hose con. 3-in. Bourbon; valves, 45 r. & l. h. thd. Bourbon; meters, 38 various; av. daily cons. 140,000 gal.; serv. con. 215; ord. pres. 40 to 45 lb., fire pres. 45 to 80 lb.

Rates: meter, min. charge $6 year, 25c. 1000 gal. max., 15c. min.

NORWALK, 7,858.

MUNICIPAL. Board of Public Service.
Director, A. W. Carpenter..... Norwalk
Collector, Francis L. Rood..... "

Impounding reservoirs, 2-500,000,000 gal.; 1.5 mi. from center business section; pumps, 2 Snyder-Hughes, & Worth.; av. daily cons. 1,500,000 gal.

NORWOOD, 16,185.

MUNICIPAL.
Mayor, H. E. Englehardt.....Norwood
Dir. Pub. Serv., H. J. Pierson..... "
Dir. Pub. Serv., Dr. Sauer..... "
Supt., E. W. Rich..... "
Des. Engr., W. G. Franz..... "
Engr. P'g. Sta., David Rees..... "

Wells, 10 tubular 10 & 12-in. 300 ft. deep; near center distribution.

Boilers, 4 hor. & vert. 800-hp. Tudor; hand stoking; pumps, 1-300,000 gal. L-D-G., 1-1,700,000 gal. L-D-G, 1-800,000 gal. L-D-G; gasoline engine, 300-hp. Miller; elec. motor, 220 v. d. c.; pumping direct & to elev. tank (1892) 350,000 gal. iron.

Pipe, 54 mi. 4 to 12-in. c. i.; hyd. 265, hose con. 3½-in. Bourbon; valves, 1060 r. h. thd. Bourbon; meters, 4200 various; av. daily cons. 1,500,000 gal.; serv. con. 4300; ord. pres. 100 lb., fire pres. 105 lb.

OAK HARBOR, 1,559.

MUNICIPAL.
Clrk & Supt., L. L. Cartensen...Oak Harbor

Wells, 2 tubular 8-in. 120 ft. deep; near center distribution; reservoir, 225,000 gal.; no purification.

Pumps, 2 deep well driven by elec. motor, 7.5 kw. 220 v. 3 ph. 35 cys., 2-129,006 gal. centrifugal Weinman driven by elec. motor, 50-hp. 220 v. 3 ph. 25 cys.; pumping direct & to elev. tank, 40,000 gal. steel.

Pipe, 5.6 mi. 4 to 12-in. c. i.; hyd. 36, hose con. 2½-in. Bourbon; valves, 32 r. h. thd. Bourbon; meters, 200; av. daily cons. 100,000 gal., serv. con. 200; ord. pres. 40 lb., fire pres. 100 lb.

Rates: meter; 25c. 1000 gal.

OBERLIN, 4,365.

MUNICIPAL. Board of Trustees.
Pres., F. F. Jewell.....Oberlin
Sec., F. W. Tobin..... "
Mbr., W. D. Hobbs..... "
Supt. & Chemist, W. F. Schickler... "
Des. Engr., A. E. Kimberly..... "

Vermilion River & wells, one; 6.5 mi. from center distribution; reservoir, 17,000,000 gal.; mechanical filters, 4-1,000,000 gal. Excelsior; chemicals, hypochlorite of lime & soda ash.

Boilers, 2 hor. tubular; hand stoking; pumps, 1-5,000,000 gal. comp. duplex Deane, 1-1,000,000 gal. Deane; pumping direct & to elev. tank, 66,000 gal. steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. hose con. 2½-in. R. D. W.; valves, 82 l. h. thd. various; meters, 950, Union, National, Thomson; av. daily cons. 285,000 gal.; serv. con. 1235; ord. pres. 20 to 50 lb., fire pres. 100 lb.

Rates: flat, $5 year; meters, $2.25 1000 cu. ft. max., $1.496 min.

ORRVILLE, 4,369.

MUNICIPAL. Board of Public Affairs.
Pres. J. W. Kropf.....Orrville
V. Pres., F. W. Kinney..... "
Sec., H. D. Wyre..... "
Supt., W. R. Cook..... "
Engr. P'g. Sta., Frank Brenneman.. "

Wells, 5 10-in. 135 ft. deep; one mi. from center distribution.

Boilers, 3 return tubular 350-hp. Erie; pumps, 3-3,000,000 gal. L-D-G; air lifts, 5 Harris operated by air compressor, Ingersoll-Rand; pumping to reservoir, 500,000 gal.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 78, hose con. 2½-in. R. D. W. & Darling; valves, 108 r. h. thd. Rensselaer & Darling; meters, 985 Thomson, Pittsburgh & Gamon; av. daily cons. 5000 gal.; serv. con. 1,004; ord. pres. 80 lb., fire pres. 100 to 125 lb.

Rates: meter, min. charge $4 year, 20c. 1,000 gal. max., 5c. min.

OTTAWA, 2,182.

MUNICIPAL. Board of Public Affairs.
Pres., G. D. Hamden..... Ottawa
Comr., H. F. Rank..... "
Sec., J. H. Kersting..... "
Supt. & Engr. P'g. Sta., J. W. Gerding "

Wells, 5 tubular 8-in. 500 ft. deep; ½ mi. from center business section; reservoir, 112,000 gal.; no purification.

Boilers, 2 hor. tubular 100-hp. ea. 100 lb. Brownell 1924; hand stoking; pumps, 2-750,000 gal. hor. comp. d. act. McGowan 1904; air compressors, 2-600 cu. ft. Ingersoll & Union 1904-09 steam driven; pumping direct & to elev. tank (1904) 34,000 gal. steel, East Iron Works.

Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 65, hose con. two ½-in. Bourbon; valves, 43 l. h. opening Bourbon; meters, 120 Pittsburgh; av. daily cons. 340,000 gal.; serv. con. 503; ord. pres. 60 lb., fire pres. 60 to 120 lb.

Rates: flat, $3.60 year, bath $2.40, closet $2,40; meter, min. charge $8.00 year 80,000 gal.; 10c. 1000 gal.

OXFORD, 2,017.

MUNICIPAL. Board of Public Affairs.
Pres., John Mollyneaux.....Oxford
Mbr., H. H. Smith..... "
Mbr., J. W. Witherby..... "
Clerk & Supt., H. A. De Mand..... "
Cons. Engrs., Smith & Bouley, The Nasby, Toledo, O.
Ebgr. P'g. Sta., W. M. Beaton, Jr... Oxford

Wells, 9 tubular 6-in. 23 ft. deep; one mi. from center distribution.

Boilers, 2 tubular 75-hp. ea. Brownell; hand stoking; pumps, 3-576,000 gal. Platt; pumping direct.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 72, hose con. 2½-in. Bourbon; valves, 90 r. h. thd Bourbon; meters, 260 Thomson; av. daily cons. 576,000 gal.; serv. con. 562; ord. pres. 63 to 83 lb.

Rates: flat, including bath & closet $9 year; meter, min. charge $9 year, 57,500 gal., 10c. 1000 gal.

PAINESVILLE, 5,501.

MUNICIPAL.
Sec. Comrs., O. W. Kile.....Painesville

Lake Erie; slow sand filters, 2,000,000 gal.

Pumps, 2-360,000 gal. comp. Knowles; av. daily cons. 1,000,000 gal.

PAULDING, 2,081.

MUNICIPAL. Board of Public Affairs.
Pres., J. F. Morisy..... Paulding
Mbr., W. J. Wheeler..... "
Mbr., A. M. Courtwright..... "
Supt.. L. O. Farnsworth..... "

Wells, 3 tubular 8-in. 380 to 700 ft. deep; near center distribution; reservoir, 100,000 gal.; no purification.

Boilers, 3 hor. tubular two 80-hp. & one 150-hp. Erie; hand stoking; pumps, 2-350.000 gal. McGowan; elec. motors, 15-hp. 220 v. 3 ph. 60 cys. Wagner; pumping to elev. tank (1913) 79,000 gal.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 45, hose con. 2½-in.; meters, 160 Hersey; av. daily cons. 150,000 gal.; serv. con. 400; ord. pres. 45 to 60 lb., fire pres. 80 to 100 lb.

PAYNE, 1,207.

MUNICIPAL.
Supt., J. S. Overmyer..... Payne
Des. Engr., Charles Brossman..... "
Engr. P'g. Sta., Charles Riehle..... "

Artesian well, 6-in. 287 ft. deep; ¼ mi. from center distribution.

Boilers, 2 hor. tubular 125-hp. Ft. Wayne; hand stoking; pumps, 2-720,000 gal. duplex Platt; pumping to elev. tank, 53,000 gal. wood.

Pipe, 3.5 mi. 4 to 12-in. c. i.; hyd. 34, hose con. 2½-in. Ludlow; valves, 26 r. h. thd. Crane; meters, 50 Buffalo; serv. con. 50; ord. pres. 52 to 55 lb., fire pres. same.

Rates: meter, 20c. 1,000 gal.

PERRYSBURG, 1,193.

MUNICIPAL. Board of Trustees of Public Affairs.
Mbr., I. D. Bowers.....Perrysburg
" W. J. Veitch..... "
" F. E. Bowers..... "
" A. C. Fuller..... "
Supt. & Engr. P'g. Sta., Geo. W. Moser..... "
Cons. Engr., W. J. Sherman Co.....Toledo

Maumee River; ¼ mi. from center business section; no purification.

Pumps, 2-25,000 gal. vert. simple c. & f. wh. Rumsey 1906; elec. motor, 40-hp. 220 v. 2 ph. 60 cys. Westg. 1906; gas engine, 40-hp. 1906; elec. energy from the Valley Light & Power Co.; pumping to standpipe (1906) 168,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 42, hose con. 2-in. Rensselaer; valves, r. h. opening; meters, 49 Union; av. daily cons. 175,000 gal.; serv. con. 239.

Rates: meter, min. charge $6 year 60,000 gal., 10c. 1,000 gal.

PIQUA, 13,388.

MUNICIPAL.

Dir. Serv., Albert Schroeder.....Piqua
Clerk, A. M. Thomas..... "
Supt., Wm. Zimmerman..... "
Engr. P'g. Sta., A. L. Wood..... "
" Pwr. Sta., E. A. Lines..... "

Miami River and Erie Canal; one mi. from center distribution.

Boilers, 2 hor. tubular 100-hp. Atlas; hand stoking; pump, 1-1,500,000 gal. Gordon driven by water-turbines, 1-2,500,000 gal. Flanders driven by water-turbines, 1-3,000,000 gal. steam McGowan; pumping direct.

Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 268, hose con. 2½-in. Bourbon & R. D. W.; valves, 130 r. & l. h. thd. Eddy & Smith; meters, none; av. daily cons. 3,000,000 gal.; serv. con. 2,800; ord. pres. 25 to 50 lb., fire pres. 60 to 100 lb.

Rates: flat, $3 year, bath $2, closet $2.

PLAIN CITY, 1,407.

MUNICIPAL. Board of Public Affairs.

Mbr., C. H. Lucas.....Plain City

PLEASANT CITY, 788.

MUNICIPAL. Board of Public Affairs.

Mbr., W. D. Archer.....Pleasant City
" J. M. Secrest..... " "
" R. O. Knott..... " "
Clerk, M. F. DeVine..... " "
Supt. & Engr. P'g. Sta.,
Chas. F. Cater..... " "
Cons. Engr., H. L. Maddock.....Newark

Wells, 2 tubular 6-in. 47 & 52 ft. deep; ¼ mi. from center business section; aeration.

Pumps, 2-15,000 gal. ea. vert. duplex Cook d. con. to gas engine; pumping to reservoir, 125,000 gal.

Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 24, hose con. 2½-in. Darling; meters, none; ord. pres. 65 lb., fire pres. same.

Rates: flat, $6.00 year, bath, $2.50, closet $2.00; meter, min. charge $2.00 quarter 25c. 1000 gal. max., 15c. min.

PLEASANT HILL, 571.

MUNICIPAL. Board of Public Affairs.

Pres., Clyde P. Whitney.....Pleasant Hill
V. Pres., Chas. Paulsgrove.... " "
Mbr., A. J. Bausman..... " "
Clerk, I. M. Lebensberger.... " "
Supt. & Engr. P'g. Sta.,
Ellis Cecil..... " "

Wells, 3 tubular 8-in. 30 to 60 ft. deep; one mi. from center distribution; no purification.

Pumps, 1-432,000 gal. Platt driven by gasoline engines, 25-hp. Olds; pumping to elev. tank, 50,000 gal. steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 25; valves, 5; meters, 80 Gamon & Pittsburgh; av. daily cons. 60,000 gal.; serv. con. 178; ord. pres. 45 to 50 lb., fire pres. same.

Rates: flat, $7 year; meter, min. charge $8 year 32,000 gal., 15c. 1000 gal.

PLYMOUTH, 1,314.

MUNICIPAL. Board of Public Affairs.

Clerk, J. S. Smith.....Plymouth
Supt., E. L. Burkart..... "

Huron River; ½ mi. from center business section.

Pumps, 1-15,000 gal. Deming belted to gas engine, 2 100-hp. Reeves & McBeth; pumping to standpipe.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd, 44. hose con. 2¼-in. Rensselaer; valves, 22 r. h. th. Crane; meters, 102 Gamon; av. daily cons. 80,000 gal.; serv. con. 225; ord. pres. 65 lb.

Rates: flat, $4 six mo., meter, 25c. 1000 gal. max., 15c. min.

PORT CLINTON, 3,007.

MUNICIPAL.

Pres., Comrs., A. L. Duff.....Port Clinton
Comr., John Sorensen..... " "
" Harry Heimeman..... " "
Supt., Geo. F. Buck..... " "
Chemist, Fred Langbein..... " "

Lake Erie; ½ mi. from center distribution; settling & coagulating basins, 2-70,000 gal.; mech. filters, 3-500,000 gal. ea. Pittsburgh 1911; chemicals, sulphate of alumina.

Boilers, 3 hor. tubular 280-hp. & one 150-hp.; hand stoking; pumps, 2-1,000,000 gal. ea. L-D-G; pumping direct.

Pipe, 14.25 mi. 4 to 14-in. c. i.; hyd. 78, hose con. 2½-in. Roe-Stephens & R. D. W.; valves, 55 l. h. thd. Eddy & Crane; meters, 675 Neptune, Pittsburgh, Hersey & Thomson; av. daily cons. 578,000 gal.; serv. con. 950; ord. pres. 50 lb., fire pres. 100 lb.

Rates: flat, $6 year, bath & closet $2.50; meter, min. charge $6 year, 75c. cu. ft. max., 50c. min.

PORTSMOUTH, 23,481.

MUNICIPAL. Board of Public Service.

Dir., John M. Williams..... Portsmouth
Supt., John Lynn..... "
Engr. P'g. Sta., S D. Shoemaker "

Ohio River.

Boilers, 3 hor. water-tube 100 to 125-hp. 85 lb., 1891, 1892, & 1902; pumps, 1-6,000-000 gal. L-D-G., 1-2,500,000 gal Worth.; pumping direct.

Pipe, 36.9 mi. 4 to 16-in. c. i.; hyd. 183, hose con. 2½-in. Holly & Bourbon; av. daily cons. 2,340,000 gal.; ord. pres. 30 to 50 lb.

PUT-IN-BAY, 259.

MUNICIPAL. Board of Public Affairs.

Pres., Henry Fox.....Put-in-Bay
Mbr., Geo. E. Goscoyne..... "
Supt. & Clerk, Carl Oelschlager . "

Lake Erie; pump driven by gasoline engine, 25-hp. F. M. & elec. motors, 10-hp. 2 ph. 60 cys. 220 v. F. M.; pumping to elev. tank.

Pipe, one mi. 4 to 12-in. wood; hyd. 7, hose con. 2½-in. Ludlow; valves, 9 r. h. thd. Ludlow; meters, 75 Worth.; serv. con. 84; ord. pres. 40 to 60 lb., fire pres. 60 to 80 lb.

Rates: meter, 20c. 1000 gal.

RAVENNA, 5,310.

MUNICIPAL.

Supt. & Dir. Serv.,
John S. Mallette.....Ravenna
Engr. P'g. Sta.,
Chas. F. Garrison..... "

Muzzy & Crystal Lakes; one mi. from center distribution; no purification.

Boilers, 3 hor. return tubular 150-hp. Erie; hand stoking; pumps, 3-3,000,000 gal. L-D-G. Knowles & Wilson-Snyder; elec. motor, 60 kw. 2200 v. 3 ph. 60 cys. Westg.; elec. energy from turbo-generators; pumping direct.

Pipe, c. i.; hyd. 100, hose con. 3½-in. Ludlow; valves, 205 l. h. thd.; meters, 25 Pittsburgh, Hersey & Buffalo; av. daily cons. 1,250,000 gal.; serv. con. 1,679; ord. pres. 35 to 40 lb., fire pres. 120 lb.

Rates; flat, $5 year, bath $2, closet $2; meter, 15c. 1000 gal. max., 5c. min.

READING, 3,985.

MUNICIPAL.

Vil. Pres., Henry Kessling.....Reading
Clerk, C. V. Dils..... "
Supt. & Engr. P'g. Sta.,
Barrett A. Burns..... "

Wells, 3 tubular 8-in.; no purificaton.

Boilers, 2 water-tube 500-hp. Ricard; hand stoking; pumps, 1-500,000 gal. L-D-G; air compressor driven by motors, 25-hp. 220 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 800,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. Bourbon; valves, 40 l. h. thd. various; meters, 473 National, Hersey & Neptune; av. daily cons. 100,000 gal.; serv. con. 473; ord. pres. 85 lb., fire pres. same.

Rates: meter, 20c. 100 cu. ft. max., 8c. min.

ROCKFORD, 1,186.

MUNICIPAL.

Pres. Comrs., Edw. J. Floyd.....Rockford
Comr., Clifford C. Pixler..... "
" P. C. Tempel..... "
Supt. & Engr. P'g. Sta.,
Thos. C. Martz..... "
Cons. Engr., Burton J. Asheley.... "

Wells, 2 tubular 8-in. 100 ft. deep; ¾ mi. from center distribution.

Boilers, 2 hor. tubular 75-hp. ea. Gem; hand stoking; pumps, 3-500,000 gal. L-D-G; pumping to standpipe (1896) steel.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 25, hose con. 3-in.; valves, 20 r. h. thd.; meters, 85 Thomson & National; av. daily cons. 100,000 gal.; serv. con. 143; ord. pres. 43 lb., fire pres. 43 to 150 lb.

Rates: flat, $4 year, closet $3; meter, min. charge, $4 year 20,000 gal., 20c. 1000 gal.

ROCKY RIVER, 1,174.

ROCKY RIVER WATER, LIGHT & POWER Co..

Pres., D. C. Reed.....Rocky River
Treas., Thos. MacBeth..... " "
Mgr., Geo. J. Furgeon..... " "
Supt., L. R. Martin..... " "

Rocky River; ¼ mi. from center distribution; settling & coagulating basins, 24 ft. in diam. 18 ft. deep; slow sand filters, 500,000 gal.; chemical. sulphate of alumina.

Boilers, 2 tubular 100-hp.; hand stoking; pumps, 2-1,750,000 gal. Worth.; pumping to standpipe (1906) steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 17, hose con. 2½-in.; meters, 75 Worth.; av. daily cons. 200,000 gal.; serv. con. 150; ord. pres. 40 to 80 lb., fire pres. same.

Rates: flat, $10 year; meter, 25c. 1,000 gal.

SABINA, 1,514.

MUNICIPAL.

Supt., O. D. Brown.....Sabina
Clerk, Geo. Burns..... "

Wells, 4 tubular 6 & 8-in. 145 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 return tubular 80-hp. Standard; hand stoking; pumps, 2-50,000 gal. Platt; pumping to standpipe (1884) iron.

Pipe, 4 mi. 4 to 12-in.; hyd. 33, hose con. 4-in. Bourbon; valves, 15 r. h. thd. Crane; meters, 218 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 275; ord. pres. 40 to 50 lb., fire pres. 52 to 100 lb.

Rates: flat, $6 year; meter, 15c. 1000 gal.

ST. HENRY, 560.

MUNICIPAL. Board of Public Affairs.

Pres., J. A. Schirack..... St. Henry
Mbr., G. Bosskin..... " "
" H. C. Meinerding..... " "
Sec., J. W. Resh..... " "
Engr. P'g. Sta., J. W. Resh..... " "

Wells, 8-in. 138 ft. deep; near center business section; reservoir, 53,000 gal.; no purification.

Pumps, 1-90,000 gal. vert. Foos 1909 belted to gasoline engine, 15-hp. Foos 1909; pumping to elev. tank (1909) 53,000 gal. vood.

Pipe, 2.5 mi. 4 to 8-in. wood; hyd. 26, hose con. 3-in. Bourbon; valves, 16 r. h. opening Darling; meters, 60 Hersey; av. daily cons. 30,000 gal.; serv. con. 80; ord. pres. 45 to 70 lb., fire pres. same.

Rates: flat, $4 year, bath $1, closet $1; meter, min. charge $1 quarter 8,000 gal., 12c. 1,000 gal.

ST. MARY'S, 5,732.

MUNICIPAL.

Supt., A. W. Buehler.....St. Mary's

SANDUSKY, 19,989.
MUNICIPAL. Board of Public Service.
Dir., John J. Molter..... Sandusky
Supt., N. Cronewett..... "
Sandusky Bay; mech. filters, 6,000,000 gal.; chemical, hypochlorite of lime.
Pumps, 1-10,000,000 gal. Holly, 1-7,500,000 gal. Worth.; av. daily cons. 5,000,000 gal.

SCIO, 958.
THE SCIO PURE WATER COMPANY.
Pres., H. W. Willett..... Scio
V. Pres., H. V. Starkey..... "
Sec. & Treas., G. D. Spiker..... "
Wells, 7 tubular 4-in.104 ft. deep; 1.5 mi. from center distribution; reservoir, 92,000 gal.; no purification.
Pumps, 1-720,000 gal. Platt belted to gas engine, 8-hp. Bessemer; pumping to standpipe (1902) steel.
Pipe, 5.25 mi. 4 to 12-in. c. i.; hyd. 41, hose con. 2½-in.; valves, 30 r. h. thd. Clow; meters, 75 Pittsburgh; av. daily con. 100,000 gal.; serv. con. 240; ord. pres. 85 to 110 lb., fire pres. 110 lb.
Rates: meter, 30c. 1000 gal.

SHELBY, 4,903.
THE SHELBY WATER CO.
Pres., C. M. Skiles.....Shelby
V. Pres., P. J. Williams..... "
Treas., J. W. Williams..... "
Sec. & Mgr., R. P. Bircker..... "
Wells, 16 tubular 8-in. 60 ft. deep; ¾ mi. from center business section; slow sand filters, 1,000,000 gal.
Boilers, 2 return tubular 150-hp. ea. 125 lb. H. S. G. 1913; pumps, 2-12,500,000 gal. hor. comp. d. act. McGowan 1897; pumping to standpipe (1897) 360,000 gal.
Pipe, 15 mi. 4 to 14-in. c. i.; hyd. 140, hose con. 2½-in. Ludlow; valves, 105 l. h. opening; meters, 600 various; av. daily cons. 700,000 gal.; serv. con. 1200; ord. pres. 40 to 56 lb., fire pres. 75 to 110 lb.
Rates: flat, $1.50 quarter, closet $1; meter, min. charge $2.50 10,000 gal., 25c. 1000 gal.

SIDNEY, 6,607.
MUNICIPAL.
Dir. Serv., C. B. De Weere.....Sidney
Sec., W. L. Heiser..... "
Supt., G. A. Hatfield..... "
Wells, 8 tubular 8 & 12-in.; near center distribution.
Boilers, 2 water-tube 200-hp. ea. Sterling; hand stoking; pumps, 2-1,500,000 gal. ea. Gordon; pumping direct & to standpipe (1889) iron.
Pipe, 15 m. 4 to 12-in c.i.; h. d. 157. hose con. 2½-in. Bourbon; valves, 130 l. h. thd. Bourbon; meters, 1450 Thomson; av. daily cons. 900,000 gal.; serv. con. 1450; ord. pres. 60 to 72 lb., fire pres. 60 to 110 lb.

SPRINGFIELD, 46,921.
MUNICIPAL.
City Mgr., C. E. Ashburne..... Springfield
Supt. & Engr. P'g. Sta.,
Geo. S. Cotter..... Springfield
Wells, 30 ft. in diam. 22 ft. deep; 4 mi. from center distribution.
Boilers, 2 water-tube 250-hp. B. & W., 2 water-tube 125-hp. Sterling; pumps, 2-5,000,000 gal. ea. Allis-C., 1-10,000,000 gal. ea. tri. exp. Tod; pumping to standpipe (1883) steel.
Pipe, 110 mi. 4 to 30-in.; hyd. 722, hose con. 2½-in. & 3 in. Bailey, R. D. W. & Smith; valves, 960 r. h. thd.; meters, 3000 various; av. daily cons. 6,500,000 gal.; serv. con. 10,200; ord. pres. 70 to 110 lb., fire pres. same.
Rates: flat, $3.80 year, bath $2.50, closet $2.50; meter, 10c. 1,000 gal. max., 6c. min.

STEUBENVILLE, 22,391.
MUNICIPAL.
Supt., James A. Simpson.....Steubenville
Ohio River; mech. filters, six 6,000,000 gal.
Pumps, 2-3,000,000 gal. vert. Allis; av. daily cons. 4,500,000 gal.

SUGARCREEK, *500.
MUNICIPAL. Board of Public Affairs.
Mbr., Ed. Shepfer.....Sugarcreek
" J. C. Geib..... "
" W. B. Hechstetler..... "
Clerk, W. A. Hahn..... "
Cons. Engr., L. E. Chapin..... "
Wells, 2 tubular 8-in. 100 ft. deep; ¼ mi. from center distribution.
Pumps, 1-240,000 gal. Deming d. con. to elec. motors, 20-hp. s. ph. 60 cys. Century; pumping direct & to elev. tank (1911) 40,000 gal. steel.
Pipe, 2.3 mi. 4 to 12-in. c. i.; hyd. 23, hose con. 2-in. Darling; valves, 18 r. h. thd. Darling; meters, 125 Pittsburgh; av. daily cons. 45,000 gal.; serv. con. 120; ord. pres. 35 to 68 lb., fire pres. 300 lb.
Rates: meter, min. charge $5 year, 25c. 1000 gal.

SWANTON, 1,058.
MUNICIPAL. Board of Public Works.
Clerk, W. D. Elwell..... Swanton

TIFFIN, 11,894.
TIFFIN WATERWORKS CO.
Pres. & Treas., N. L. Scannell.....Tiffin
Sec., E. A. Scannell..... "
Wells, 6 tubular 10 & 12-in. 200 ft. deep; chemical, hypochlorite of lime.
Pumps, 1-4,000,000 gal., 1-3,000,000 gal. steam, 1-1,500,000 gal. driven by water-turbine; av. daily cons. 650,000 gal.

TOLEDO, 168,497.
MUNICIPAL.
Supt., G. A. Gessner, Jr.....Toledo
Cons. Engr., Wm. G. Clarke..... "
Engr. P'g. Sta., Geo. Adams..... "
Chemist, E. R. Meyer..... "
Maumee River; 5 mi. from center distribution; settling & coagulating basins; 2-

500,000 gal. ea.; mech. filters, 34,000,000 gal.; chemical, hypochlorite of lime & sulphate of alumina.

Boiler, 4 hor. water-tube 300-hp. Sterling, 2 hor. water-tube 300-hp. Park; mechanical stoking, 4 Murphy & 2 Roney; pumps, 2-5,000,000 gal. ea. Snow, 2-15,000,000 gal. Worth., 1-30,000,000 gal. Allis-C., 3-15,000,000 gal. centrifugal, 1-5,000,000 gal. centrifugal driven by gas engines, 3 300-hp. & 2 150-hp.; pumping direct, to reservoir, 2-20,000,000 gal. & standpipe (1874) iron.

Pipe, 305 mi. 4 to 30-in. c. i.; hyd. 2300, hose con. 2½-in.; valve, 2,500 l. h. thd.; meters, 25,485; av. daily cons. 18,950,000 gal.; serv. con. 28,710; ord. pres. 75 lb., fire pres. 100 lb.

Rates: meter, min. charge $5.40 year, 9c. 1000 gal.

TORONTO, 4,271.

MUNICIPAL.

Supt., C. H. Leasure.....Toronto

Ohio River; no purification.

Pumps, 2-12x12 triplex; av. daily cons. 500,000 gal.

TROY, 6,122.

MUNICIPAL.

Dir. Pub. Serv., H. J. Beck..... Troy
Clerk, W. Horte Gibson..... "
Supt., L. A. Pool..... "
Ch. Engr. P'g. Sta., E. W. Erter..... "

Wells, 13 tubular 8-in. 50 ft. deep; ¾ mi. from center distribution; no purification.

Boilers, 2 water-tube 112-hp. ea. B. & W.; hand stoking; pumps, 3-1,500,000 gal. ea. L-D-G; pumping direct.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 155, hose con. 2½-in. R. D. W.; valves, 125 r. & l. h. thd. Eddy; meters, 576 mostly Thomson, Neptune & Pittsburgh; av. daily cons. 788,500 gal.; serv. con. 1662; ord. pres. 45 to 60 lb., fire pres 90 to 110 lb.

Rates: flat, $4 year, bath $2, closet $2.50; meter, min. charge $2 10,000 gal., 12c. 1000 gal. max., 6c. min.

TWINSBURG, 212.

THE WILSAXSON WATER CO.

Pres., W. S. Lester.....Twinsburg
Sec., A. W. Elliott..... "
Treas. & Pur. Agt., P. P. Evans.. "
Supt., S. H. Crankshaw..... "

Springs; reservoir, 3000 gal.; no purification; gravity distribution

Pipe, 2 mi. 2 & 4-in. wood; fire pres. 40 to 60 lb.

Rates: flat, $10 year.

UHRICHSVILLE, 4,751.

Supplied by the DENNISON WATER SUPPLY CO. See Dennison.

UNION CITY, 1,595.

Supplied by UNION CITY, IND.

UPPER SANDUSKY, 3,779.

UPPER SANDUSKY WATERWORKS CO.

Supt., Samuel J. Black....Upper Sandusky

Sandusky River; mechanical filters, 3-1,500,000 gal. Pittsburgh 1902; chemical, sulphate of alumina.

Pumps, 2-1,500,000 gal. Blake, one 12x 12 Goulds; av. daily cons. 500,000 gal.

URBANA, 7,739.

MUNICIPAL.

Supt., Link Burnham..... Urbana

Wells, ½ mi. from center distribution.

Boilers, 2 water-tube 160-hp. ea. B. & W.; hand stoking; pumps, 1-2,000,000 gal. L-D-G, 1-4,000,000 gal. L-D-G; pumping direct.

Pipe, 22 mi. 4 to 12-in. c. i.; hyd. 173, hose con. 2½-in. Holly & Bourbon; valves, 1050 r. h. opening; meters, 70; av. daily cons. 1,000,000 gal.; serv. con. 1525; ord. pres. 70 to 80 lb., fire pres. 100 lb.

Rates: flat, $6 year, bath $4, closet $4; meter, 25c. 1,000 gal. max., 10c. min.

UTICA, 1,729.

MUNICIPAL.

Pres. Comrs., E. M. Kinsey.....Utica
Supt., F. M. Crow..... "
Clerk, E. L. Mantonya..... "

Wells, tubular; ¾ mi. from center distribution.

Pumps, 3-288,000 gal. ea. Weinman driven by gas engines, 3 15-hp. Cook & Reeves; pumping to reservoir, 200,000 gal.

Pipe, 25 mi. 4 to 6-in.; hyd. 36, hose con. 2½-in.; valves, 22; meters, 165 Keystone; serv. con. 165; ord. pres. 65 lb.

VAN WERT, 7,157.

MUNICIPAL.

Supt., D. Davies.....Van Wert

Wells, 6 tubulur 6 to 10-in. 150 to 400 ft. deep; no purification.

Pumps, 2-2,000,000 gal. hor. Holly; air compressor, Platt; av. daily cons. 550,000 gal.

WADSWORTH, 3,073.

WADSWORTH WATER & LIGHT CO.

Pres., Wm. Artman.....Wadsworth
V. Pres., Geo. Hambleton..... "
Sec., Ira Everhard..... "
Treas. & Mgr., J. H. Rickard.... "
Supt. & Engr. P'g. Sta.,
Frank J. Porter..... "

Wells, 2 tubular 8-in. 260 ft. deep; no purification.

Pumps. 2 duplex L-D-G; av. daily cons. 1,000,000 gal.

WAPAKONETA, 5,349.

MUNICIPAL.

Supt., Harry Nagel.....Wapakoneta

Wells, 6-in. 73 ft. deep; no purification.

Pumps, 2 McGowan; av. daily cons. 300,000 gal.

WARREN, 11,081.

THE TRUMBULL PUBLIC SERVICE CO.

Gen. Mgr., E. L. Franklin.....Warren
Sec. & Treas., W. S. Honn..... "

Gen. Supt., M. L. Derge.....Warren
Bus. Mgr., W. J. Marshall..... "
Engr. P'g. Sta., V. B. Fry..... "
Chemist, T. P. Steeper..... "

Mahoning River; ½ mi. from center distribution; settling & coagulating basins, 78,000 gal.; mech. filters, 6-1,500,000 gal. Cumberland; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 return tubular 100-hp. Erie & A. & R.; hand stoking; pumps, 2-1,500,000 gal. duplex Deane, 1-1,500,000 gal. Hamilton; elec. motor, 20 kw. 220 v. 3 ph. 60 cys. G. E.; elec. energy from the Trumbull Public Service Co.; pumping direct & to standpipe (1887) steel.

Pipe, 37 mi. 4 to 12-in. c. i.; hyd. 190, hose con. 2½-in.; meters, 2650 Thomson; av. daily cons. 1,000,000 gal.; serv. con. 3274; ord. pres. 50 to 60 lb., fire pres. 110 to 120 lb.

Rates: meter, min. charge $8 year, 18c. 1000 cu. ft. max., 8c. min.

WASHINGTON COURT HOUSE, 7,277.

WASHINGTON COURT HOUSE WATER COMPANY.

Supt., E. D. Fisher..Washington Ct. House

Wells, 6 open & 6 tubular 6 & 8-in. 175 ft. deep; no purification.

Pumps, 2 comp. duplex Worth.; av. daily cons. 570,000 gal.

WAUSEON, 2,650.

MUNICIPAL. Board of Public Affairs.

Mbr., W. Lyon.....Wauseon
" F. C. Smallman..... "
" F. R. Guilford..... "
Supt., S. J. Clark..... "
Engr. P'g. Sta., J. C. Kinney..... "

Wells, 4 artesian 10-in. 300 ft. deep; 2.5 mi. from center distribution.

Boilers, 2 tubular 135-hp.; hand stoking; pumps, 2-1,000,000 gal.; pumping to standpipe (1889) steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 72, hose con. 3-in.; valves, l. h. thd.; meters, 700 Hersey; av. daily cons. 250,000 gal.; serv. con. 809; ord. pres. 25 lb., fire pres. 60 lb.

WAVERLY, 1,803.

MUNICIPAL. Board of Trustees of Public Affairs.

Pres., Julius Schiller..... Waverly
V. Pres., Arthur Screibenger..... "
Mbr., Theo. Armbruster..... "
" E. C. Tetric..... "
Supt. & Engr. P'g. Sta.,
Jos. W. Overman..... "

Wells, 3 tubular 6 & 10-in. 68 ft. deep; ¼ mi. from center business section; settling basin, 2-120,000 gal. ea.; slow sand filters, 172,800 gal.; chemicals, soda ash & lime.

Boilers, 2 hor. tubular 150-hp. ea. 95 lb. Russell 1895; hand stoking; pumps, 2-750,000 gal. comp. McGowan 1911, 2 s. American 1911 driven by steam engines, 150-hp. Russell; air compressor, Union 1911; pumping to standpipe (1911) 123,000 gal.

Pipe, 4 mi. 4 to 10-in. c. i ; hyd. 49, hose con. 2½-in. Bourbon; valves, 56 l. h. opening Crane; meters, 75 Pittsburgh; av. daily cons. 30,000 gal.; serv. con. 105; ord. pres. 80 to 90 lb., fire pres. 80 to 120 lb.

Rates: meter, min. charge $5 year, 40c. 1000 gal.

WAYNESBURG, 760.

MUNICIPAL. Board of Public Affairs.

Pres., Philip L. Elsass.....Waynesburg
Mbr., Henry Brown..... "
" A. Snyder..... "
Sec., H. W. Bankert..... "
Engr. P'g. Sta., A. B. Youmans "

Wells, 4 tubular 5-in. 80 ft. deep; ¼ mi. from center business section; reservoir, 100,000 gal.; no purification.

Boiler, hor. tubular 50-hp. 100 lb. Erie 1901; hand stoking: pumps, 1-180,000 gal. hor. simple d. act. Canton 1914; pumping to reservoir, above.

Pipe, 2 mi. 3 to 8-in. c. i.; hyd. 22, hose con. 3-in.; valves, 13 r. h. opening Pratt & Cady; meters, 5 Pittsburgh; av. daily cons. 50,000 gal. 30%; serv. con. 160; ord. pres. 40 to 80 lb., fire pres. same.

Rates: flat, $6 year, bath $1, closet $3; meter, 12c. 1000 gal. max., 6c. min.

WAYNESVILLE, 705.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
J. W. Burton.....Waynesville

Wells, ¾ mi. from center distribution.

Boilers, 2 hor. tubular 80-hp. ea. Gem; hand stoking; pumps, 2-750,000 gal. ea. McGowan; pumping to standpipe (1900) steel.

Pipe, 3.5 mi. 4 to 8-in. c. i.; hyd. 23, hose con. 2½-in.; valves, 12 l. h. thd.; av. daily cons. 50,000 gal; serv. con. 175; ord. pres. 40 to 100 lb., fire pres. 40 to 150 lb.

WELLINGTON, 2,131.

MUNICIPAL.

Pres. Comrs., C. A. Gott.....Wellington
Comr., W. G. Watts..... "
" C. O. McDaniels..... "
Supt., C. E. Gadfield..... "

Springs; ½ mi. from center distribution; no purification

Boilers, 3 return tubular 300-hp. Erie & Brown; hand stoking; pumps, 1-172,000 gal. Goulds, 1-1,000,000 gal. Snyder-Hughes; elec. motor, 4 kw. 220 v. 3 ph. 60 cys. Ft. Wayne; pumping to standpipe (1898) iron.

Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 46, hose con. 2½-in. Eddy & Darling; valves, 24 l. h. thd. Eddy; meters, 198 Pittsburgh & Gamon; av. daily cons. 225,000 gal.; serv. con. 815; ord. pres. 30 to 45 lb., fire pres. 30 to 150. lb

Rates: all meter, 25c. 1,000 gal.

WEST ALEXANDRIA, 1,030.

MUNICIPAL. Board of Public Affairs.

Chmn., J. H. Jordan.....West Alexandria

Mbr., Harry D. Copp..... West Alexandria
" Frank Gazell..... " "
Clerk, E. J. Henry..... " "
Engr. P'g. Sta.,
Holmes Ewalt..... " "

Wells, 5 tubular 6 & 8-in. 135 to 145 ft. deep; near center distribution.

Boilers, 2 hor. tubular 42-hp. Platt; hand stoking; pumps, 2-500,000 gal. ea.; pumping to standpipe (1897) steel.

Pipe, 3.75 mi. 4 to 12-in.; hyd. 42, hose con. 2½-in. Bourbon; valves, 18 r. h. thd. Bourbon; meters, 205 Thomson, Buffalo & Pittsburgh; serv. con. 205; ord. pres. 30 to 45 lb.

Rates: meter, 15c. 1,000 gal.

WEST MANCHESTER, 445.

MUNICIPAL.

Clerk, Levi Shumaker...West Manchester

Wells, 3 tubular 8-in. 60 ft. deep; near center distribution.

Pumps, driven by gasoline engines, 2 25-hp. Columbus.; pumping direct.

Hyd. 21, hose con. 2½-in.; av daily cons. 1,000,000 gal.; serv. con. 85; ord. pres. 60 to 80 lb., fire pres. same.

WEST MILTON, 1,207.

MUNICIPAL. Board of Public Affairs,
Pres., H. L. Lambert.....West Milton
Mbr., N. W. Vore..... " "
" Geo. Lindsay..... " "
Clerk & Supt., C. J. Hoeflich... " "

Spring; ½ mi. from center distribution.

Pump, 1-360,000 gal. Deane, 1-864,000 gal. Platt; gasoline engine, 20-hp. Columbus; elec. motor, 500 v. d. c.; pumping to elev. tank, 40,000 gal. iron.

Pipe, 4 mi. 4 to 12-in. c. i.: hyd. 33, hose con. 4-in. Bourbon; valves, 17 r. & l. h. thd.; meters, 258 Union, Gamon & Neptune; av. daily cons. 60,000 gal.; serv. con. 256; ord. pres. 62 lb., fire pres. same.

WEST PARK, 500.

MUNICIPAL.

City Engr., Wm. Evers.....West Park

Supplied by the city of Cleveland.

WESTERVILLE, 1,903.

MUNICIPAL.

Pres. Comrs., Dr. J. W. Funk...Westerville
Comr., F. C. Arn..... "
" M. M. Weibling..... "
Supt., F. F. Kidwell..... "

Wells, 3 tubular 24-in. & one 3 ft. in diam. 30 to 50 ft. deep; near center distribution; no purification.

Boilers, locomotive 18-hp.; hand stoking; pumps, 2-500,000 gal. McGowan; pumping direct.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 43, hose con. 2½-in. Bourbon; valves, 30; meters, 510 mostly Neptune; av. daily cons. 240,000 gal.; serv. con. 510; ord. pres. 20 to 40 lb., fire pres. 80 lb.

WILLOUGHBY, 2,072.

MUNICIPAL.

Supt., E. P. Richmond.....Willoughby

Ohio River; mech. filters, 2-1,000,000 gal.; chemical, liquid chlorine.

Pumps, one Platt; av. daily cons. 220,000 gal.

WILMINGTON, 4,491.

THE DAYTON POWER & LIGHT CO. (Wilmington District).

Pres., F. M. Tait.....Dayton, O.
V. Pres., E. P. Matthews..... "
Sec. & Treas., L. K. Funkhouser "
Gen. Supt., O. H. Hutchings.... "
Mgr., Geo. M. West.....Wilmington
Supt., F. C Jeannot..... "

Wells, 8 tubular 6 to 14-in. 100 ft. deep; 2.5 mi. from center distribution; no purification.

Boilers, 3 water-tube 600-hp. Heine & Erie; hand stoking; pumps, 2-1,000,000 gal. ea. Platt; pumping direct & to standpipe, steel.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 93, hose con. 2½-in. Bourbon; valves, 52 l. h. opening Crane; meters, 450 Hersey; av. daily cons. 100,000 gal.; serv. con. 501; ord. pres. 45 to 55 lb., fire pres. 100 to 110 lb.

WOODSFIELD, 2,502.

WOODSFIELD WATER COMPANY.

Pres., James Kinney, Jr.....Bellaire
Sec., S. C. Boyer.....Athens
Treas., W. D. Boyer.....Sevanton, Pa.
Gen. Mgr. & Supt.,
R. W. Kinney.....Woodsfield
Cons. Engrs, The W. J. Sherman Co. Toledo

Impounding reservoir, 40,000,000 gal.; 2 mi. from center business section.

Boilers, 2 return tubular 55-hp. ea. 100 lb. Gem 1901; gas fuel; pumps, 1-1,000,000 gal. hor. comp. d. act. Platt 1901; pumping to reservoir, 420,000 gal.

Pipe, 6.5 mi. 4 to 10-in. c. i.; hyd. 34, hose con. 2½-in. Eddy; valves, l. h. opening Eddy; meters, 150 various; av. daily cons. 150,000 gal.; serv. con. 360; ord. pres. 40 to 55 lb., fire pres. same.

Rates: flat, bath $5 year, closet $5; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal max., 25c. min.

WOOSTER, 6,136.

MUNICIPAL.

Supt., Jno. E. Taylor.....Wooster

WORTHINGTON, 547.

MUNICIPAL. Board of Public Affairs.
Clerk, S. E. Corbin.....Worthington
Mbr., S. C. Litsinger..... "
" E. T. Heaps..... "

Wells, two 6-in. 60 ft. deep; ½ mi. from center business section.

Pumps, 2 vert. Weinman 1913 driven by gas engines, two 5-hp. ea. & one 20-hp. Bessemer 1913; pumping to elev. tank (1913) 50,000 gal. steel.

Hyd. 30; meters, 55 Hersey.

Rates: meter, min. charge $6 year, 30c. 1000 gal.

WYOMING, 1,893.

MUNICIPAL. Board of Public Affairs. Supplies Lockland & Arlington.

Mbr., Chas. Buss..... Wyoming
" Wm. Moeller..... "
" Chas. Cheeseman..... "
Clerk, H. E. Bienfang..... "
Supt. & Engr. P'g. Sta.,
Wm. Gremer..... "
Cons. Engr., John W. Hill,
506 First Nat'l Bk. Bldg., Cincinnati, O.

Wells, 3 tubular 6 & 8-in. 180 & 240 ft. deep; ¼ mi. from center distribution; no purification.

Boilers, 2 fire-tube 150-hp. ea.; hand stoking; pump, one L-D-G; pumping direct & to reservoir, 4,000,0;00 gal.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 2½-in.; valves, 17 Michigan & Bourbon; meters, 370 mostly Neptune; av. daily cons. 373,000 gal,; serv. con. 370; ord. pres. 90 to 110 lb., fire pres. same.

Rates: all meter, min. charge 50c. mo., 20c. 100 cu. ft. max., 8c. min.

YOUNGSTOWN, 79,066.

MUNICIPAL.

Dir. Serv., Veeder Heasley..... Youngstown
Supt. & Engr. P'g. Sta.,
John S. Lewis..... "
Chemist, G. C. Stevenson..... "

Mahoning River; settling & coagulating basins, 8,500,000 gal.; mech. filters, 28,000,000; chemical, sulphate of alumina.

Boilers, 5 water-tube 500-hp. B. & W.; mechanical stoking, Green chain grate; pumps, 5-8,000,000 gal. Kerr & Tod; pumping direct & to standpipe, 2 (1894-1914) steel.

Pipe, 16.2 mi. 4 to 30-in. c. i.; hyd. 1694, hose con. 2½-in. various; meters, 9270 Gamon, Neptune, Pittsburgh & Worth.; av. daily cons. 10,500 gal.; serv. con. 17,500; ord. pres. 26 to 138 lb., fire pres. same.

Rates: flat, $5.28 year, bath $2.64, closet $2.64; meter, min. charge $4 year, $1.20 1000 cu. ft. max., 60c. min.

XENIA, 8,706.

THE XENIA WATER CO.

Pres., Geo Little..... Xenia
Sec. & Mgr., Geo. F. Cooper..... "

Springs & wells, 17 tubular 6 to 10-in. 40 ft. deep; no purification.

Boilers, 4 tubular 150-hp. Brownell & H. S. G.; pumps, 2-1,750,000 gal. ea. comp. duplex Gordon & Maxwell, 1-1,000,000 gal. Deane; pumping to reservoir, 3,000,000 gal. & standpipe, 275,000 gal.

Pipe, 22 mi. 6 to 14-in. c. i.; hyd. 204 Chapman; valves, 60 Chapman; meters, 133 mostly National & Neptune; av. daily cons. 800,000 gal ; ord. pres. 60 to 80 lb.

OKLAHOMA

ADA, 4,349.
MUNICIPAL.
Comr., H. T. Evans.....Ada

AFTON, 1,279.
MUNICIPAL. AFTON MUNICIPAL LIGHT & WATER PLANT.
Pres. Bd. Trustees, Wm. Bensch.....Afton
Chmn. Comrs., Dr. B. H. Harper..... "
Town Clerk, N. C. Barry..... "
Supt., W. E. Blackwell..... "
Engr. P'g. Sta., John M. Greene ..... "
Wells, 2 1000 ft. deep; pumps, 1-288,000 gal. Alberger driven by elec. motor, 20-hp. 3 ph. 60 cys. Wagner; air compressor, American; pumping to standpipe (1809) 50,000 gal. steel.
Pipe, 4 & 6-in. c. i.; hyd. 20, hose con. 3-in. Pratt & Cady; valves, 12 r. h. thd.; meters, 43 Pittsburgh; av. daily cons. 70,000 gal.; serv. con. 225; ord. pres. 60 lb., fire pres. 100 lb.

ALVA, 3,688.
MUNICIPAL.
Supt., A. W. Shattuck.....Alva

ANADARKO, 3,439.
MUNICIPAL.
Supt. & Engr., P'g. Sta.,
M. A .Kunkel.....Anadarko
City Clerk, J. W.Fowler..... "
Washita River; one mi. from center distribution; settling basin, 1,000,000 gal.; mech. filters, not in use.
Boilers, 4 250-hp.; hand stoking; pumps, 2; pumping to elev. tank, iron.
Pipe, 40 mi. 4 to 12-in. c. i.; hyd., hose con. 2-in.; meters, Pittsburgh; serv. con. 300.
Rates; meter, 50c. mo., 15c. 1000 gal.

ANTLERS, 1,273.
MUNICIPAL.
Mayor, J. M. Corneliuos.....Antlers
Clerk, A. J. Walker..... "
Supt. & Engr. P'g. Sta., F. B. Morris "
Kimichie River; 1.5 mi. from center distribution.
Pump, 1-648,000 gal. Deane driven by elec. motor, 50-hp. 50 kw. 2200 v. 2 ph. 60 cys. Ft. Wayne; elec. energy from Antlers Light & Power Co.; pumping to elev. tank (1911) 75,000 gal.
Pipe, 4 mi. 4 to 12-in. Universal; hyd. 30, hose con. 3-in. Columbian; valves, 17 r. h. thd. Crane; meters, 521 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 183; ord. pres. 40 to 65 lb., fire pres. 65 to 220 lb.
Rates; meter, min. charge $1 mo., 50c. 1000 gal. max.

ARAPAHO, 713.
MUNICIPAL LIGHT & WATER PLANT.
Pres., J. A. Carlberg.....Arapaho
Mbr., P. R. Shearer..... "
" Sam Johnston..... "
Vil. Clerk, C. A. Schwab.....Arapaho
Engr. P'g. Sta., S. Szedeli..... "
Well, 6-in. 65 ft. deep; ½ mi. from center business section; no purification.
Pump, 1-720,000 gal. vert. centrifugal F. M. 1911 driven by elec. motors, 4 & 30-hp. F. M. 1911; oil engine, 80-hp. F. M. 1910; pumping direct & to standpipe (1911) 50,000 gal.
Pipe, 2.1 mi. 4 to 8-in.; hyd. 36; valves, 10 l. h. opening; meters, 42 Pittsburgh.
Rates; meter, min. charge $1 mo. 4000 gal., 25c. 1000 gal. max., 15c. min.

ARDMORE, 8,618.
MUNICIPAL.
Supt., W. H. Fraley.....Ardmore

ATOKA, 1,968.
MUNICIPAL.
Mayor, C. M. Neal.....Atoka
Chmn. Comrs., Jas. H. Gill..... "
Comr., J. W. Phillips..... "
" J. H. Mahnker..... "
City Clerk, P. P. Williamson..... "
Supt., N. F. Foy..... "
Boggy River & well, 20 ft. in diam. 40 ft. deep; 1.25 & 2 mi. from center business section; reservoirs, 150,000 gal.; settling basins; chemicals, none.
Boilers, 2 tubular 40-hp. ea. 90 lb. Brownell 1907; hand stoking; pumps, 2-500,000 gal. ea. hor. simple d. act. Platt 1907; 2-500,000 gal. hor. duplex; pumping direct & to elev. tank (1907) 50,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 8 mi. 4 to 8-in. c. & w. i.; hyd. 42, hose con. 2½-in. Bourbon; valves, 30 r. h. opening; meters, 175 Pittsburgh & Thompson; av. daily cons. 26,000 gal.; serv. con. 180; ord. pres. 60 to 65 lb., fire pres. 60 to 125 lb.
Rates; meter, min. charge $1 2000 gal. 50c. 1000 gal. max., 10c. min.

BLACKWELL, 3,266.
MUNICIPAL WATER, ELECTRIC LIGHT & POWER PLANT.
Supt., W. D. McIntire.....Blackwell
Boilers, 450-hp. Erie; steam engine, 325-hp. Corliss-Bates.

CADDO, 1,143.
Supplied by city of Durant.

CARMEN, 883.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Supt., Fred. M. Coffman.....Carmen
Treas., R. E. Crain..... "
Engr. P'g. Sta., E. J. Howard..... "
Boilers, 200-hp. Inglis; steam engines, 125-hp. Straight.

CHANDLER, 2,024.
MUNICIPAL.
Comr., J. H. Lockwood.....Chandler
" F. L. Burt..... "

Comr., Geo. Wilson.....Chandler
Supt., J. Bart Foster..... "
Cons. Engr., H. J. Wilkins..... "
Engr. P'g. Sta., Geo. W. Anderson. "

Wells, 4 30 ft. in diam. & 26 in. 30 ft. deep; ½ mi. from center distribution; no purification.

Boilers, 2 fire-tube 60-hp.; pumps, 2-1,000,000 gal. ea. Gardner; gas engines, 10-hp. International; pumping to standpipe (1903) 84,600 gal. iron.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Ludlow; meters, 200 Pittsburgh; av. daily cons. 150,000 gal;. serv. con. 248; ord. pres. 50 to 65 lb., fire pres. 100 to 140 lb.

Rates; meter, 35c. 1000 gal. max., 25c. min.

CHECOTAH, 1,683.

MUNICIPAL.

Mayor, H. B. Rheubelt.....Checotah
Councilman, John Bain..... "
" P. B. Townsend..... "
" B. E. Rosendahl..... "
Supt., J. E. Harding..... "

Impounding reservoir, 7 mi. from center distribution; settling basin, 500,000 gal.; chemicals, hypochlorite of lime, lime & sulphate of iron.

Pumps, 3-1,650,000 gal. Platt & 2 Jeansville driven by elec. motors, 125 kw. 440 & 2300 v. 3 ph. 60 cys. Westg. & Ft. Wayne; elec. energy from Checotah Light & Ice Co.; pumping to reservoir.

Pipe, 8 mi. 4 to 12-in. steel; hyd. 50, hose con. 2½-in. Chapman & Iowa; valves, 24 r. h. thd. Pratt & Cady; meters, 250 Pittsburgh; av. daily cons. 190,000 gal.; serv. con. 335; ord. pres. 80 lb., fire pres. same.

Rates; meter, min. charge 50c. mo. 45c. 1000 gal. max., 10c. min.

CHEROKEE, 2,016.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mayor, A. J. Titus.....Cherokee
Clerk, C. A. Hash..... "
Supt., O. E. McDowell..... "
Engr. P'g. Sta., W. Hughs..... "

Wells; near center business section.

Boilers, 2 return tubular 150-hp. ea. 100 lb. 1910; pumps, 3-720,000 gal. Platt 1910; steam engines, 125-hp. Skinner 1912, 250-hp. Minneapolis 1910; pumping to standpipe (1910) 79, 000 gal.

Pipe, 4 mi. 4 to 10-in. c. i.; hyd. 40, hose con. 2½-in. Pratt & Cady; valves, 30 l. h. opening Crane; meters, 180 Pittsburgh; av. daily cons. 80,;000 gal. serv. con. 186; ord. pres. 52 to 80 lb.

Rates; meter, min. charge $1 mo. 4000 gal., 25c. 1000 gal. max., 10c. min.

CHICKASHA, 10,320.

MUNICIPAL.

Supt., E. A. Payton.....Chickasha

CLAREMORE, 2,866.

MUNICIPAL ELECTRIC LIGHT & WATER WORKS.

Mayor, C. B. Halzendorf.....Claremore
Clerk, Chas. Cardin..... "
Supt., John Chalfant..... "

Verdegris River; 5 mi. from center business section; settling basins, 2-500,000 gal.; coagulating basin; mechanical filters, 1,000,-000 gal. filtering area 18 x 22 ft. Pittsburgh; chemical, sulphate of alumina.

Boilers, 2 fire tube 100-hp. ea. 120 lb. Kewanee 1906, fire tube 125-hp. 120 lb. English 1907; pumps, 1-720,000 gal. vert. triplex Wagner 1908 geared to elec. motor, 62.5-hp. 2080 v. 3 ph. 60 cys. Wagner 1908, 1-216,000 gal. vert..duplex F. M. 1912 geared to elec. motor, 7.5-hp. 220 v. 3 ph. 60 cys. F. M. 1912, 1-432,000 gal. vert. centrifugal G. E. 1914 d. con. to elec. motor 35-hp. 2200 v. 3 ph. 60 cys. G. E. 1914; pumping to elev. tanks, 2 (1907, 1912) 135,000 gal. iron, Chicago Bridge & Iron Works.

Pipe, 12 mi. 4 to 8-in. c. i.; hyd. 83, hose con. 2½-in Rensselaer; valves, 48 l. h. opening Rensselaer; meters, 300 various; av. daily cons. 250,000 gal.; serv. con. 400; ord. pres. 35 to 55 lb., fire pres. 150 lb.

Rates; meter, min. charge 90c. mo. 3333 gal., 30c. 1000 gal. max., 8c. min.

COALGATE, 3,255.

MUNICIPAL.

Supt., Cooper Davis.....Coalgate

COLLINSVILLE, 1,324.

MUNICIPAL.

Chmn. Comrs., H. L. Hille.....Collinsville
Comr., T. A. Lee..... "
" T. H. Swisher..... "
Clerk, Wm. M. Gresham..... "
Supt., Claude Thorpe..... "

Caney River; 2.5 mi. from center business section; reservoir, 5,000,000 gal.

Boilers, 3 hor. fire tube 150-hp. ea. 125 lb. Brownell 1911; pumps, 2-1,000,000 gal. vert. centrifugal Worth., 2-750,000 gal. hor. centrifugal Jeansville both d. con. to elec. motors; pumping to standpipe (1911) 50,000 gal. steel

Pipe, 8 mi. 4 to 6-in. c. i.; hyd. 38, hose con. 2½-in. Ludlow & Darling; valves, 6; meters, 320 Pittsburgh.

Rates; meter, min. charge 50c. mo. 2000 gal., 25c. 1000 gal. max., 3c. min.

COMANCHE, 1,301.

MUNICIPAL.

Chmn. Comrs., J. B. Leach.....Comanche
Comr., B. E. Massey..... "
Clerk, G. A. Eberle..... "
Supt., E. L. Sewell..... "

Wells, 2 open 15 ft. in diam. 20 ft. deep; ½ mi. from center business section; reservoir, 30 ft. diam. 15 ft. deep.

Boilers, 2 tubular 125-hp. ea. 120 lb. Southern 1911; hand stoking; pumps, 1-800,000 gal. hor. simple d. act. McGowan 1911, 1-100,000 gal. vert. triplex 1913 belted to elec. motor, 5-hp. 220 v. 3 ph. 60 cys. Westg. 1913; steam engine, 100-hp. Southern 1911; pumping to elev. tank (1911)

50,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 24, hose con. 2½-in. Western; meters, 22; av. daily cons. 15,000 gal.; serv. con. 120; ord. pres. 40 to 65 lb., fire pres. 100 lb.

Rates; flat, $1 mo.; meter, min. charge $1 mo. 1000 gal., 40c. 1000 gal.

CORDELL, 1,950.

MUNICIPAL.

Mayor, R. L. Harvey.....Cordell
Sec., J. Reid..... "
Supt., T. B. Wolford..... "
Cons. Engrs.,
Benham Eng. Co.....Oklahoma City
Engr. P'g. Sta., J. H. Killian.....Cordell

Springs & reservoir, 200,000 gal.; 10 mi. from center business section.

Boilers, 2 hor. tubular 150-hp. ea. 110 lb. 1908; hand stoking; pumps, 1-500,000 gal. hor. simple d. act. Gardner 1904, 1-32,400 gal. vert. triplex Platt 1913 geared to elec. motor, 2-hp. 220 v. single ph. 60 cys. G. E. 1913, 2-360,000 gal. ea. hor. centrifugal Worth. 1911 d. con. to elec. motors, 2 20-hp. ea. 2280 v. 3 ph. 60 cys. G. E. 1911; steam engines, 90-hp. Chuse 1914, 160-hp. Ide 1910; pumping to elev. tank (1904) 40,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 50, hose con. 2½-in. Rensselaer; valves, 12 r. h. opening; meters, 200 Pittsburgh & Neptune; av. daily cons. 30,000 gal. 90%; serv. con. 220; ord. pres. 50 to 56 lb., fire pres. same.

Rates; meter, min. charge 60c. mo. 1300 gal.

CUSTER CITY, 854.

MUNICIPAL.

Mayor, O. H. Parker.....Custer City
City Clerk, D. E. McKenney... " "
Supt. & Engr. P'g. Sta.,
H. H. Hatchett..... " "

Wells, 2 tubular 6-in. 275 ft. deep; near center business section; reservoir, 200,000 gal.

Boilers, 2 return tubular 125-hp. ea. 125 lb. H. S. G. 1912; hand stoking; pumps, 1-1,080,000 gal. hor. s. d. act. Deane 1912, 1-360,000 gal. vert. triplex Deane 1912; steam engines, 75-hp. Chuse 1912, 125-hp. Chuse 1912; elec. motors, 2 20-hp. ea. 2300 v. 3 ph. 60 cys. Ft. Wayne 1912; pumping to reservoir above & stand-pipe (1912) 50,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 25, hose con. 3-in. Darling; valves, 15 l. h. opening Crane; meters, 25 Pittsburgh; av. daily cons. 15,000 gal. 50%; serv. con. 4; ord. pres. 54 lb., fire pres. 150 lb.

Rates; meter, min. charge 50c. mo. 20c. 1000 gal.

DAVIS, 1,416.

MUNICIPAL,

Trustee, J. F. Ellis.....Davis
" W. L. Rogers..... "
" L. A. Davis..... "
Town Clerk, Fay L. Crossett..... "
Supt. & Engr. P'g. Sta.,
J. C. Chapman.....Davis

Wells; near center distribution; no purification.

Boilers, 2 hor. 40-hp. Brownell; hand stoking; pumps, 2-36,000 gal. Deane; pumping to elev. tank, 50,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½-in. Rensselaer; valves, 6 r. h. thd. Rensselaer; meters, 55 Pittsburgh & Thomson; av. daily cons. 30,000 gal.; serv. con. 200; ord. pres. 50 to 65 lb., fire pres. same.

Rates; flat, $1 mo.; meters, 33½c. 1000 gal. max., 10c. min.

DUNCAN, 2,477.

MUNICIPAL.

Artesian wells, 550 ft. deep; near center business section.

Pumps, 2 Luitweiler & American driven by elec. motors, 2 25-hp.; pumping to reservoir, 22 ft. diam. 14 ft. deep, and standpipe (1901) steel.

Pipe, 4.5 mi. 4 to 12 -in. c. i.; hyd. 74, hose con. 3-in.; meters, 412 Pittsburgh & Neptune; av. daily cons. 50,000 gal.; serv. con. 450; ord. pres. 20 to 30 lb., fire pres. 20 to 50 lb.

DURANT, 5,330.

MUNICIPAL. Supplies Caddo.

Supt., F. S. Bennett.....Durant
City Engr., W. P. Danford..... "
Cons. Engrs.,
Burnes & McDonnell...Kansas City, Mo.
Engr. P'g. Sta.,
C. C. Calloway.....Armstrong, Okla.

Blue River; 5 mi. from center distribution settling basin, 350,000 gal.; mech. filters, 2-500,000 gal. ea.; chemical, sulphate of alumina.

Boilers, 2 hor. 80-hp. ea.; hand stoking; pumps, 2-2,000,000 gal. steam Worth., 1-1,296,000 gal. Worth., 2-1,000,000 gal. Worth. driven by elec. motors, 150 kw. 2300 v. 3 ph. 60 cys. G. E.; elec. energy fron Durant Ice & Light Co.; pumping to standpipe (1905) steel.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 108, hose con. 2½-in. Darling & Pratt & Cady; valves, 34 r. h. thd. various; meters, 100 Worth. & Keystone; av. daily cons. 1,000,000 gal.; serv. con. 750; ord. pres. 60 to 100 lb., fire pres. same.

Rates; meter, 15c. 1000 gal.

EDMOND, 2,090.

MUNICIPAL.

Chmn. Comrs., J. E. Moore.....Edmond
Supt., M. W. Keeney..... "
Engr. P'g. Sta., L. F. Kneeland.... "

Wells, 5 tubular 6 & 10-in. 180 to 400 ft. deep; ¼ mi. from center distribution; reservoir, 110,000 gal.; no purification.

Boiler, hor. tubular 125-hp. Brownell; hand stoking; pumps, 2-1,440,000 gal. Deane; gas engines, 2 170-hp. Bessemer; elec. motors, 35 kw. 220 v. 3 ph. 60 cys. Westg., F. M. & Deane; elec. energy from

municipal light plant; pumping to elev. tank (1909) 50,000 gal. steel.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 54, hose con. 2½-in. Darling; valves, 24 r. h. thd. Darling; meter, 305 Pittsburgh & Neptune; av. daily cons. 120,000 gal.; serv. con. 321; ord. pres. 40 to 43 lb., fire pres. 40 to 75 lb.

Rates; meter, min. charge 50c. mo., 25c. 1000 gal. max., 18c. min.

ELK CITY, 3,165.

MUNICIPAL.

City Clerk, J. B. Winn.....Elk City
Supt., J. B. Winn..... " "
Des. Engr., C. R. Reid..... " "
Engr. P'g. Sta., C. L. Harper..... " "

Impounding reservoir, 120,000,000 gal. & wells, 2 tubular 8-in. 225 & 515 ft. deep; ½ mi. from center business section; settling basin, 100,000 gal.

Boilers, 2 40-hp. 1908; hand stoking; pumps, 2-520,000 gal. hor. comp. d. act. Deane 1908, 1-75,000 gal. vert. Keystone 1914, 1-60,000 gal. vert. Keystone 1914 d. con. to elec. motors, 2 10-hp. ea. 220 v. 3 ph. 60 cys. G. E. 1914, 2-432,000 gal. hor. centrifugal Allis-C. 1914 d. con. to elec. motors, 2 40-hp. ea. 2200 v. 3 ph. 60 cys. Allis-C. 1914; eled. energy from Elk City Ice, Light & Fuel Co.; pumping to elev. tank (1908) 60,000 gal. steel.

Pipe, 8 mi. 4 & 6-in. c. i.; hyd. 55 Rensselaer; valves, 30 various; meters, 150 Pittsburgh & Buffalo; av. daily cons. 200,000 gal. 85%; serv. con. 200; ord. pres. 40 to 80 lb., fire pres. 40 to 125 lb.

Rates; flat, $1 mo.; meter, min. charge $1 mo. 2000 gal., $1 1000 gal. max., 10c. min.

EL RENO, 7,872.

MUNICIPAL.

Supt., Clarence White.....El Reno

ENID, 13,799.

MUNICIPAL.

Supt., F. W. Brooks.....Enid
Engr. P'g. Sta., C. H. Harrison..... "

Wells, 32 tubular 6-in. 30 ft. deep; reservoirs, 2-1,000,000 gal. ea.; no purification.

Boilers, 2 tubular 80-hp. Murray & Phoenix; hand stoking; pumps, 2-2,000,000 gal. ea. L-D-G; pumping direct & to reservoirs, above.

Pipe, 31 mi. 4 to 14-in. c. i.; hyd. 168, hose con. 2½-in. Ludlow; valves, r. h. thd.; meters, 1825 Neptune & Pittsburgh; av. daily cons. 1,000,000 gal.; serv. con. 1826; ord. pres. 60 lb., fire pres. 120 lb.

Rates; all meter, 25c. 1000 gal. max., 15c. min.

FAIRFAX, 819.

MUNICIPAL.

Pres. Bd. Trustees, G. W. Beree....Fairfax
Trustee, Pitts Beaty..... "
" D. Sigler..... "
Clerk, C. R. Shanklin..... "
Des. Engr., E. T. Archer..... "
Engr., P'g. Sta., B. Morrison..... "

Wells, 20 ft. in diam. 24 ft. deep; 2 mi. from center distribution; no purification.

Pumps, 2-6 x 8 triplex Platt belted to gasoline engines, 2 40-hp. Charter; pumping to reservoir, 200,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Iowa; valves, 18 r. h. thd.; meters, 138 Pittsburgh; serv. con. 138; ord. pres. 50 to 96 lb., fire pres. same.

Rates; all meter, min. charge 75c. mo., 25c. 1000 gal. max., 15c. min.

FAIRVIEW, 2,020.

MUNICIPAL.

Supt., P. H. Wimpey.....Fairview
Engr. P'g. Sta., M. V. Basam..... "

Wells; 8 mi. from center distribution.

Boilers, 2 hor. 150-hp. W. & W.; hand stoking; pumps, 2 Deming; elec. motors, 100 kw. 2300 v. 3 ph. 60 cys. Westg.; pumping to standpipe (1908) irobn.

Pipe, 12 mi. 2½ to 12-in. c. i. & wood; hyd. 32, hose con. 3-in. Eureka; meters, 326 Pittsburgh; av. daily cons. 60,000 gal.; serv. con. 325; ord. pres. 40 to 125 lb., fire pres. same.

FOSS, 525.

MUNICIPAL.

Chmn. Comrs., D. F. Vincent.....Foss
Comr., H. A. Gale..... "
" R. E. Smith..... "
Supt. & Engr. P'g. Sta., H. D. Cobb... "

Well, 25 ft. deep; near center distribution.

Boiler, tubular 8-hp. H. S. G.; hand stoking; pumps, 1-288,000 gal. Deane; pumping to standpipe (1912) iron.

Pipe, 2 mi. 4 to 12-in.; hyd. 21, hose con. 2½-in Eureka; valves, 5 h. r. thd.; meters, 60 Buffalo, Pittsburgh; av. daily cons. 15,000 gal.; serv. con. 60; ord. pres. 55 lb., fire pres. same.

Rates; meter, min. charge $1 3000 gal., 25c. 1000 gal.

FREDERICK, 3,027.

MUNICIPAL.

Supt., J. L. Morrow.....Frederick

GOTEBO, 740.

MUNICIPAL.

Mayor, W. H. Kuder.....Gotebo
Engr. P'g. Sta., J. W. Rose..... "

Well, 20 ft. diam. 35 ft. deep; near center business section; no purification.

Boiler, 15-hp. 1911; pump, 1-316,000 gal. vert. 1911 driven by gasoline engine, 15-hp. St. Marys 1911; pumping to standpipe (1911) 50,000 gal.

Pipe, 6 mi. 2 to 6-in. w. i.; hyd. 15, hose con. 2½-in.; valves, 20 l. h. opening; meters, 54; av. daily cons. 2000 gal.; ord. pres. 50 to 75 lb., fire pres. same.

Rates; meter, 75c. 1000 gal.

GRANITE, 1,229.

BOARD OF TRUSTEES.

Mayor, G. M. Brown.....Granite
Trustee, B. C. Caddel..... "

Trustee, E. C. Foster.....Granite
Supt., Hollis Arnett..... "

Wells, 3 tubular 8-in. 160 to 168 ft. deep; settling basin, 45,000 gal.

Pumps, 3-15,000 gal. ea. vert. s. 1911 geared to elec. motors, 3 5-hp. ea. 220 v. 3 ph. 60 cys. F. M. 1911, 1-500,000 gal. hor. centrifugal Lawrence 1909 d. con. to elec. motor, 35-hp. 2200 v. 3 ph. 60 cys. Ft. Wayne 1909; elec. energy from Oklahoma State Reformatory; pumping to reservoir, 150,000 gal.

Pipe, 8 mi. 2 to 10-in. c. i.; hyd. 56, hose con. 3-in. Pratt & Cady; valves, 22 r. h. thd.; meters, 120 Pittsburgh; av. daily cons. 30,000 gal. 75%; serv. con. 140; ord. pres. 55 to 67 lb., fire pres. same.

Rates; flat $1 mo., meter, min. charge $1 mo. 1000 gal., $1 1000 gal. max., 50c. min.

GROVE, 888.

MUNICIPAL LIGHT & WATER SYSTEM.
Treas., Dr. E. O. Williams.....Grove

Boiler, 140-hp. Brownell; steam engine, 75-hp. Brownell.

GUTHRIE, 11,654.

MUNICIPAL.
Mayor, J. E. Nissley.....Guthrie
Comr., C. C. Clothier..... "
Cons. Engrs., E. T. Archer & Co., New England Bldg., Kansas City, Mo.
Engr. P'g. Sta., F. L. Brown.....Guthrie

Cottonwood River; one mi. from center distribution; settling & coagulating basin, 750,000 gal.; mechanical filters, 1,000,000 gal.; chemicals, lime & sulphate of iron.

Boilers, 2 hor. tubular 80-hp.; hand stoking; pumps, 1-1,000,000 gal. steam Deane, 2-1,000,000 gal. ea., 1-2,000,000 gal.; gasoline engine, 15-hp. Monitor; elec. motors, 5-220 v. 3 ph. 60 cys. G. E.; elec. energy from local light plant; pumping direct & to standpipe, iron.

Pipe, 21 mi. 4 to 12-in. c. i.; hyd. 130, hose con. 2½-in. Crane; valves, 110 r. h. thd. Crane & Ludlow; meters, 1142 Pittsburgh & National; av. daily cons. 500,000 gal.; serv. con. 1395; ord. pres. 45 to 85 lb., fire pres. 45 to 150 lb.

Rates; flat, $5 year, bath $3, closet $6; meter, min. charge 50c. mo., 20c. 1000 gal. max., 10c. min.

HAILEYVILLE, 3,024.

MUNICIPAL WATER COMMISSION.
Mayor, J. J. Tyrlington.....Haileyville
Comr., C. H. Strong..... "
City Clerk, C. B. Peterson..... "
Comr. & Supt., H. Lindsay..... "

Impounding reservoir, 110,000,000 gal.; 2 mi. from center business section.

Water pumped by city of Hartshorne; pumping to standpipe (1912) 85,000 gal.

Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 59, hose con. 2½-in. Darling; valves, 23 r. h. opening Darling; meters, 215 Pittsburgh; av. daily cons. 130,000 gal. 90%; serv. con. 215; ord. pres. 45 to 115 lb.

Rates; all meter, min. charge 75c. mo. 3000 gal., 25c. 1000 gal. max., 7c. min.

HEAVENER, 780.

MUNICIPAL. Board of Water Commissioners.
Chmn., H. S. Bliss.....Heavener
Comr., G. M. Daily..... "
Sec., Wm. Weir..... "
Supt., G. H. Stone..... "
Cons. Engr., W. Y. McFarlin.....Dewey
Engr. P'g. Sta., H. A. Johnston...Hodgens

Black Fork River; 3 mi. from center business section; reservoir, 150,000,000 gal.; no purification.

Boilers, 2 tubular 50-hp. ea. 120 lb. Brownell 1910; hand stoking; pumps, 2-125,000 gal. ea. hor. comp. d. act. Platt 1901; pumping to elev. tank (1910) 70,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 40, hose con. 2½-in. Darling; valves, 60 r. h. opening Darling; meters, 21 Pittsburgh; av. daily cons. 100,000 gal. 95%; serv. con. 250; ord. pres. 75 to 95 lb., fire pres. 95 to 120 lb.

Rates; flat, $12 year including bath & closet; meter, min. charge $1 mo., 30c. 1000 gal. max., 10c. min.

HENRYETTA, 1,671.

MUNICIPAL.
Supt., H. M. LaWue.....Henryetta
Engr. P'g. Sta., S. C. Boay..... "

Impounding reservoir, 65,000,000 gal.; 2.5 mi. from center business section; no purification.

Boilers, 2 tubular 100-hp. ea. Brownell; natural gas fuel; pumps, 2-1,800,000 gal. Platt; steam engine, 50-hp.; pumping direct & to standpipe (1910) steel.

Pipe, 10.2 mi. 4 to 12-in. c. i.; hyd. 118, hose con. 2½-in. Pratt & Cady & Ludlow; valves, 93 Ludlow; meters, 500 various; av. daily cons. 1,000,000 gal., serv. con. 500; ord. pres. 30 to 100 lb., fire pres. same.

Rates; all meter, min. charge $1 mo., 40c. 1000 gal. max., 7c. min.

HUGO, 4,582.

MUNICIPAL.
Mayor, J. W. Milam.....Hugo
City Clerk, J. A. Wolff..... "
Supt., H. G. Hixson..... "
Cons. Engr., Hiram Phillips.St. Louis, Mo.
Engr. P'g. Sta., S. H. Skelton.....Hugo
Chemist, R. J. Shull..... "

Kiamichi River; 7 mi. from center business section; settling basins, 2-4,000,000 gal.; coagulating basin, 150,000 gal.

Boilers, 2 fire tube 150-hp. ea. 150 lb. Brownell 1910; hand stoking; pumps, 2-1,500,000 gal. vert. comp. d. act. Epping-Carpenter 1910, 2-2,000,000 gal. ea. hor. comp. d. act. Epping-Carpenter 1910; pumping to standpipe (1910) 500,000 gal. steel, St. Louis Iron Works.

Pipe, 30 mi. 4 to 12-in. c. i.; hyd. 138, hose con. 2½-in. Rensselaer; valves, 200 l. h. opening Rensselaer; meters, 50 various;

av. daily cons. 750,000 gal. 75%; serv. con. 1400; ord. pres. 45 to 65 lb., fire pres. 65 to 90 lb.

Rates; flat, $3 quarter; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal. max., 6c. min.

KINGFISHER, 2,538.

MUNICIPAL.

Comr., E. A. Pemberton.....Kingfisher
" M. A. Ball..... "
" Poeter Harris..... "
Supt., A. E. Finuf..... "
Engr. P'g. Sta., R. H. Marley.... "

Impounding reservoir, 25,000,000 gal.; ½ mi. from center business section; slow sand filters, 150,000 gal.

Boilers, 2 hor. 150-hp. Casey-Hedges; hand stoking; pumps, 1-360,000 gal. Deane, 2-720,000 gal. Snow; elec. motor, 20-hp. 2300 v. 3 ph. 60 cys. Westg.; elec. energy from City Electric Power Plant; pumping to standpipe (1900) steel.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 44, hose con. 2½-in. Rensselaer; valves, 35 r. & l. h. thd. Crane; meters, 350 various; av. daily cons. 75, 000 gal.; serv. con. 350; ord. pres. 62 lb., fire pres. same.

Rates; meter, 30c. 100 cu. ft. max., 15c. min.

LAWTON, 7,788.

MUNICIPAL.

Comr., R. A. Jones.....Lawton
Supt., W. W. Soper..... "

Impounding reservoir on Medicine Creek, 4,574,000 gal.; 12 mi. from center distribution; no purification.

Pump, 1-1,440,000 gal. Worth. for emergency; gravity distribution.

Pipe, 27 mi. 4 to 12-in. c. i.; hyd. 237, hose con. 2½-in. Iowa, Fairbanks & Rens-salaer; valves, 74 r. h. thd. Crane; meters, 100 Pittsburgh; av. daily cons. 1,000,000 gal.; serv. con. 1700; ord. pres. 45 to 85 lb., fire pres. 100 lb.

Rates; meter, 50c. 1000 gal. max., 5c. min.

LINDSAY, 1,156.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Pres. Comrs., W. E. Mooney.....Lindsay
Mbr., W. H. Lester..... "
" N. W. Fisher..... "
City Clerk, T. B. Clements..... "
Supt. & Engr. P'g. Sta.,
A. W. Simpson..... "

Wells, 2 8-in. 70 ft. deep; near center business section; reservoirs, 2-85,000 gal.

Boilers, 2 tubular 100-hp. ea. 115 lb. Brownell 1909; hand stoking; pumps, one hor. comp. d. act. Platt 1909, one hor. simple d. act. Platt 1909; air compressor, Platt 1909 steam driven; pumping to reservoir, 35,000 gal. & to standpipe (1909) 50,000 gal. steel.

Pipe, 45 mi. 4 to 8-in. c. i. Universal; hyd. 25, hose con. 3-in.; valves, 13 l. h. opening; meters, 133 Pittsburgh; av. daily cons. 30,000 gal. 98%; serv. con. 135; ord. pres. 40 to 50 lb., fire pres. 110 lb.

Rates; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal. max., 15c. min.

McALESTER, 12,954.

MUNICIPAL.

Mayor, J. I. Wood.....McAlester
Comr. & Supt., F. D. Pittman... "
Clerk, J. M. Gannaway..... "
City Engr., A. H. Kindrick..... "
Engr. P'g. Sta., R. S. Naylor..... "
Chemist, Dr. Will Waite..... "

Gains Creek & lakes, 3,000,000,000 gal.; 3.5 mi. from center distribution.

Boilers, 2 marine 125-hp. Penman; hand stoking; pumps, 4-2,160,000 gal. Worth. & McGowan; pumping direct & to standpipe (1904) iron.

Pipe, 27.5 mi. 4 to 14 in. c. i.; hyd. 218, hose con. 2½-in. Ludlow; meters, 1700 Neptune & National; av. daily cons. 800,000 gal.; serv. con. 2200; ord. pres. 50 to 85 lb., fire pres. 125 lb.

MANGUM, 3,667.

MUNICIPAL.

Mayor, D. F. Border.....Mangum
Chmn. Comrs., R. R. Snell..... "
City Clerk, John H. Tomme..... "
Supt., Louis Nicholson..... "

Wells, 3 open 12 to 20 ft. in diam. 35 ft. deep; no purification.

Boilers, 2 60-hp. ea. Atlas; hand stoking; pumps, 5-720,000 gal.; elec. motors, 3 Westg.; pumping to standpipe (1905) steel.

Pipe, 13 mi. 4 to 8-in. c. i.; hyd. 83, hose con. 2½-in. Rensselaer & Ludlow; valves, 25 t. h. thd. Birmingham; meters, 400 Pittsburgh; av. daily cons. 240,000 gal.; serv. con. 500; ord. pres. 30 to 55 lb., fire pres. 60 to 100 lb.

MARIETTA, 1,546.

MUNICIPAL WATER & LIGHT PLANT.

Mayor, A. P. Bailey.....Marietta
Sec., N. A. English..... "
Supt., J. C. Wood..... "
Engr., P'g. Sta., J. R. Ray..... "

Wells, 2 tubular 6-in. 368 & 750 ft. deep; near center business section; no purification.

Boilers, 2 70-hp. ea. 120 lb. Brownell 1909, 1 140-hp. 120 lb. W. & W. 1909; pumps, 1-28,800 gal. hor. comp. Worth. 1914, 2-432,000 gal. hor. duplex Deane 1906; air compressor, Ingersoll-Rand 1912 steam driven; steam engines, 168-hp. Ridgway 1911, 250-hp. Ball 1914; elec. motor 20-hp. 2300 v. 3 ph. 60 cys. Western 1914; pumping to reservoir, 60,000 gal. & standpipe (1914) 100,000 gal.

Pipe, 4 mi. 4 & 8-in. c. i.; hyd. 60, hose con. 2½-in. Rensselaer & Darling; valves, 8 r. h. opening Crane; meters, 207 Buffalo, Worth. & Pittsburgh; av. daily cons. 60,-000 gal.; serv. con. 400; ord. pres. 55 lb., fire pres. 125 lb.

Rates; flat, $1 mo.; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal. max., 25c. min.

MARLOW, 1,965.
MUNICIPAL.
Supt., L. A. Pritchett.....Marlow
Engr. P'g. Sta., H. W. Cato..... "
Wells, 3 tubular 10-in 440 to 850 ft. deep: near center distribution; reservoir, 500,000 gal.; no purification.
Pumps, 3-1,000,000 gal. Platt & 2 American; gasoline engines, 2 80 & 85-hp. F. M. & Bessemer; elec. motors. 48 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1907) iron.
Hyd. 20, hose con. 2½-in.; meters, 69 Pittsburgh; av. daily cons. 25,000 gal.; serv. con. 90; ord. pres. 43 lb., fire pres. same.
Rates; flat, $1 mo.; mater, 60c. 1000 gal. max., 25c. min.

MEDFORD, 1,110.
MUNICIPAL WATER LIGHT & POWER PLANT.
Supt., Chas. L. Berger.....Medford
Wells; one mi. from center business section.
Pumps, 2-2,288,000 gal. American; elec. motors 35 kw. 2300 v. 3 ph. 60 cys. Westg.; pumping to standpipe (1902) 60,000 gal. steel.
Pipe, 4 mi. 4 to 12-in.; hyd. 30, hose con. 3-in. Rensselaer; meters, 400 Pittsburgh; av. daily cons. 60,000 gal.; serv. con. 400; ord. pres. 55 lb., fire pres. 55 to 65 lb.
Rates; meter, 60c. 1000 gal. max., 25c. min.

MIAMI, 2,907.
MUNICIPAL WATER & ELECTRIC LIGHT PLANT.
Supt., A. L. Sailors.....Miami
Boiler, 80-hp. F. M.; steam engines, 130-hp. Biggs.

MILLERTON, 300.
MILLER LUMBER CO.
Pres., A. T. Miller.....Millerton
Wells, 2 tubular 3 & 4-in. 140 ft. deep; near center business section; no purification.
Boilers, 3 hor. tubular 100-hp. ea. 130 lb. Atlas 1910; hand & mechanical stokers; pumps, 2-15,000 & 10,000 gal. vert. s. d. act. American 1907 & 1912; pumping to elev. tank (1912) 20,000 gal. steel, Chicago Bridge & Iron Works.
Pipe, 2 mi. 2-in. galv. iron; hyd. 10, hose con. 2-in.; av. daily cons. 10,000 gal.; serv. con. 125; ord. pres. 40 lb., fire pres. same.
Rates; flat $1 mo., bath 25c., closet 25c.

MUSKOGEE, 25,278.
MUNICIPAL. Water, Sewer & Light Commission.
Comr., J. McKusker.....Muskogee
Eng.r P'g. Sta., Chas. Dyer..... "
Grand River; 4.5 mi. from center business section; reservoirs, 2-6,000,000 gal.; chemicals, suplhate of iron & lime.
Boilers, 4 water tube 250-hp. ea., 150 lb. Casey-Hedges 1911-12; natural gas fuel; pumps, 1- 6,000,000 gal. tri. exp. c. & f. wh. Allis-C. 1912, 1-4,000,000 gal. hor. tri. exp. c. & f. wh. Prescott 1910, 1-2,500,000 gal. hor. tri. exp. c. & f. wh. Platt 1908, 1-6,000,000 gal. vert. tri. exp. Worth. 1912 d. con. to elec. motor, 1-6,000,000 gal. hor. centrifugal DeLaval 1912 d. con to steam turbine; elec. motors, 10-220 v. 3 ph. 60 cys. a. c. Westg. 1912; pumping to reservoir & standpipe (1903) 300,000 gal.
Pipe, 79.68 mi. 6 to 24-in. c. i.; hyd. 637, hose con. 4-in. Rensselaer; valves, 225 l. h. opening Rensselaer; meters, 4215 various; av. daily cons. 3,500,000 gal., serv. con. 5309; ord. pres. 70 to 85 lb., fire pes. same.
Rates; flat, $3 quarter; meter, min. charge $2 quarter 1600 cu. ft., 12.5c. 100 cu. ft. max., 7c. min.

NEWKIRK, 1,992.
MUNICIPAL.
Town Clerk, Hugh Zegler.....Newkirk
Supt., J. H. Fox..... "
Engr. P'g. Sta., C. B. Jenkins..... "
Wells, 2 open 30 ft. diam. 40 ft. deep; one mi. from center business section; reservoir, 100,000 gal.; no purification.
Boilers, 3 return tubular 100-hp. ea. 100 lb. Brownell 1911; gas fuel; pumps, 1-1,900, 000 gal. hor. comp. Gardner 1900, 2-41,000 gal. triplex Platt 1911; steam engines, 75-hp. Skinner 1911, 150-hp. Corliss-Bates 1903; elec. motors, 2 20-hp. ea. 220 v. 3 ph. 60 cys. Westg. 1911-13; pumping to standpipe (1900) 1000,000 gal.
Pipe, 9 mi. 4 to 8-in.; hyd. 32, hose con. 2-in.; valves, 12 r. h. opening Crane; meters, 240 Thomson & Worth.; av. daily cons. 200,000 gal.; serv. con. 240; ord. pres. 60 to 63 lb., fire pres. 100 to 125 lb.
Rates; all meters, 50c. 1000 gal. max., 25c. min.

OCHELATA, 550.
MUNICIPAL.
Pres. Trustees, J. D. Engle.....Ochelata
Trustee, S. W. Bliss..... "
" H. H. Bowen..... "
Supt., M. D. Young..... "
Well, 18 ft. in diam. 20 ft. deep; 3.5 mi. from center distribution; reservoir, 100,000 gal.; slow sand filter; chemicals, none.
Pumps driven by gas engines, 8 & 12-hp. Bessemer; pumping to standpipe (1905) steel.
Hyd. 15, hose con. 2-in.

OKEENE, 920.
MUNICIPAL.
Vil. Clerk, J. E. Jennings.....Okeene.
Well.

OKLAHOMA CITY, 640,205.
MUNICIPAL.
Comr., W. H. Hampton....Oklahoma City
Supt. & Des. Engr.,
J. W. Bennett..... " "
Engr. P'g. Sta., C. F. Gordon " "
Chemist, C. E. Clifford..... " "

Canadian River; 3 mi. from center distribution, settling & coagulating basins, 3-2,500,000 gal.; mechanical filters, 8,000,000 gal.; clear water basin 1,500,000 gal.; chemicals, liquid chlorine, lime & iron.

Boilers, five 950-hp. Erie; mechanical stokers 3 Roney; pumps, 1-10,000,000 gal. Snow; 1-8,000,000 gal. Platt, 1-6,000,000 gal. Prescott, 2-3,000,000 gal. ea. Worth.; elec. motor, 220 v. d. c. Ft. Wayne & Westg.; elec. energy from generators, Ft. Wayne d. con. to engines, Chuse; pumping direct.

Pipe, 151 mi. 4 to 30-in. c. i.; hyd. 894, hose con. 4 & 6-in. Ludlow, Darling, R. D. W. & Rensselaer; valves, 830; meters, 9759 National, Thomson, Hersey & Pittsburgh; av. daily cons. 7,000,000 gal.; serv. con. 11,000; ord. pres. 80 lb., fire pres. same.

Rates; flat, modern house $3.40 quarter; meter, min, charge 75c., 20c. 1000 gal. max., 10c. min.

PAULS VALLEY, 2,689.

MUNICIPAL.

Supt., A. C. McCord.....Pauls Valley

PAWHUSKA, 2,776.

MUNICIPAL WATER, ELECTRIC LIGHT & GAS COMMISSION.

Comr., H. M. Loomer.....Pawhuska
" W. G. Scott..... "
" J. M. Buckley..... "
Chf. Engr., W. G. Williams..... "

Pump driven by elec. motor, 25-hp.

PAWNEE, 2,161.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Mgr., H. M. Bretz.....Pawnee
Eng. P'g. Sta., John McDaniels..... "

Boiler, 420-hp. English; steam engine, 150-hp. Corliss-Bates.

PERRY, 3,122.

MUNICIPAL.

Supt. & Engr. P'g. Sta., J. G. Cronin.Perry

Impounding reservoirs, 2-134,000,000 gal.; ¾ mi. from center distribution; settling & coagulating basins, 500,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 fire-tube 150-hp. Lake Erie; hand stoking; pumps, 2-2,300,000 gal. L-D-G; pumping direct, to reservoir, above & elev. tanks, 75,000 gal. steel.

Pipe, 5 mi. 4 to 12-in, c. i.; hyd. 40, hose con. 2½-in. Bourbon; meters, 30 Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 300; ord. pres. 35 to 60 lb., fire pres. 125 to 150 lb.

Rates; meter, 30c. 100 cu. ft. max., 9c. min.

PITTSBURG, 400.

PITTSBURG WATER & LIGHT CO.

Pres., E. S. Rea.....Coffeyville, Kans.
V. Pres., M. E. Williams.....McAlester
Sec., J. E. Allen.....Pittsburg
Treas., Mgr. & Contg. Agt.,
F. C. Drew..... "

PONCA CITY, 2,521.

MUNICIPAL.

Supt., G. G. O'Neill.....Ponca City
Engr. P'g. Sta., C. O. Johnson.. " "
Treas., F. L. Helvey..... " "

Well, 30 ft. in diam. 38 ft. deep; 1.5 mi. from center distribution; no purification.

Pumps driven by elec. motors, 2 35-hp. & 1 50 hp. 2200 v. 3 ph. 60 cys.; pumping to elev. tank, 1000,000 gal. steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Rensselaer; valves, l. h. thd.; meters, 700 Pittsburgh; av. daily cons. 400,000 gal.; serv. con. 700; ord. pres. 48 to 55 lb., fire pres. 100 to 135 lb.

POND CREEK, 1,113.

MUNICIPAL.

Mayor, F. J. Gentry.....Pond Greek
Supt. & Engr. P'g. Sta.,
C. C. Shepard..... " "

Well; one mi. from center distribution.

Boiler, 2 fire-tube 60-hp.; hand stoking; pumps, 2 Gardner, pumping to elev. tank, 60,000 gal. steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. Rensselaer; meters, 120 Neptune; serv. con. 150; prd. pres. 45 to 60 lb., fire pres. 45 to 225 lb.

Rates; meter, 40c. 1000 gal. max., 20c. min.

PRAGUE, 1,025.

MUNICIPAL LIGHT & WATER PLANT.

Supt., W. E. Davis.....Prague
Town Clerk, S. M. Hunt..... "

Wells, 6-in. 500 ft. deep; near center business section; reservoir, 70,000 gal.; settling basin 75,000 gal.

Boilers, 2 tubular 80-hp. ea. 125 lb. 1909; hand stoking; pumps, 2-500,000 gal. ea. hoe. comp. d. act. F. M. 1909; elec. motors, 2 15-hp. ea. 220 v. 3 ph. 60 cys. F. M. 1909; gasoline engines, 12-hp. Callagan 1911; pumping to elev. tank (1099) 70,000 gal. steel.

Pipe, 12 mi. 2 to 8-in. c. i.; hyd. 23, hose con. 3-in. Pratt & Cady; meters, 100 Pittsburgh & Buffalo; av. daily cons. 30,000 gal. 90%; serv. con. 100; ord. pres. 55 to 60 lb., fire pres. 55 to 100 lb.

Rates; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal. max., 20c. min.

PRYOR CREEK, 1,798.

MUNICIPAL.

Mayor, W. A. Graham.....Pryor Creek
City Clerk, Jos. Hillin..... " "
Supt., R. D. Morgan..... " "
Des. Engr., W. L. Burham..... " "
Chemist, Dr. J. L. Adams..... " "

Grand River; 7 mi. from center distribution; mech. filters, 1,080,000 gal. Pittsburgh; chemical, hypochlorite of lime.

Boilers, 2 tubular 100-hp. Brownell; hand stoking; pumps, 2-1,080,000 gal. Gardner; pumping to elev. tank, 1000,000 gal.

Pipe, 3 mi. 4 to 10-in.; hyd. 65, hose con. 2½-in. Iowa; valves, 40 l. h. thd. Iowa; meters, 250 Pittsburgh; av. daily cons.

200,000 gal.; serv. con. 400; ord. pres. 56 to 66 lb., fire pres. 125 lb.
Rates; meter, 20c. 1000 gal.

PURCELL, 2,740.
MUNICIPAL.
Mayor, W. G. Blanchard.....Purcell
Fin. Secy., E. Warren DeLay..... "
Comr., F. J. Ferry..... "
Wells, 10 tubular 8 to 10-in. 50 ft. deep; near center distribution; reservoir, 518,000 gal.; no purification.
Boilers, 2 water-tube 200-hp. Erie; hand stoking; pumps, 2-1,000,000 gal. Worth., 1-1,000,000 gal. Worth., 1-1,080,000 gal. Deane; elec. motors, 3-hp, 60 cys. G. E.; elec. energy from generators, 100 & 200 kva. G. E.; pumping to elev. tank (1903) 120,000 gal. steel.
Pipe, 8.5 mi. 4 to 12-in. c. i.; hyd. 58, hose con. 2½-in. Ludlow & Rensselaer; valves, 86 r. h. thd. Ludlow; meters, 240 Neptune & Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 345; ord. pres. 55 to 65 lb., fire pres. 65 to 100 lb.
Rates; meter, 50c. 1000 gal. max., 30c. min.

RALSTON, 557.
MUNICIPAL.
Comr., F. E. Bryant.....Ralston
Supt. & Engr. P'g. Sta.,
Jos. J. Roether..... "
Arkansas River; ¼ mi. from center distribution.
Boiler, tubular 100-hp.; pumps, 1-144,000 gal. centrifugal Alberger; elec. motor, 20 kw. 220 v. 3 ph. 60 cys.; pumping to elev. tank (1910) steel.
Hyd. 17, hose con. 2½-in. Porter & Darling; valves, one r. h. thd. Crane; meters, 12 Pittsburgh; av. daily cons. 20,000 gal.; serv. con. 30; ord. pres. 25 to 35 lb., fire pres. 65 to 75 lb.

ROFF, 1,044.
MUNICIPAL WATER, LIGHT & POWER PLANT.
Sec., H. Hughs..... Roff
Mgr., J. F. Matthews..... "
Boiler, 125-hp. Walton; steam engine, 1 110-hp. Skinner.

RYAN, 1,207.
RYAN LIGHT & WATER CO. (Municipal plant leased to O. H. Kirkpatrick, Tulsa, for 10 years from May, 1914.)
Bus. Mgr., C. H. Brewer.....Ryan
Supt., W. C. Willard..... "
Boiler, 300-hp. Frost; steam engines, 125-hp. Corliss-Murray.

SALLISAW, 2,479.
MUNICIPAL.
Supt., Geo. K. Friend.....Sallisaw
Sec., R. H. Bibb..... "
Sallisaw Creek; 4 mi. from center distribution.
Boilers, 2 fire-tube 100-hp. ea. Brownell; hand stoking; punps, 3-720,000 gal. Platt; elec. motors, 75 kw. 2200 v. 3 ph. 60 cys. Ft. Wayne; pumping to elev. tank, 50,000 gal. iron.
Hyd., hose con. 2½-in. Rensselaer & Darling; meters, 35 Pittsburgh & Thomson; av. daily cons. 75,000 gal.; serv. con. 312; prd. pres. 35 to 43 lb., fire pres. 35 to 125 lb.
Rates; meter, 50c. 1000 gal. max., 6c. min.

SAPULPA, 8,283.
MUNICIPAL.
Supt., J. T. Schwab.....Sapulpa

SAYRE, 1,881.
MUNICIPAL.
Mayor, E. F. Cornels.....Sayre
Chmn. Comrs., A. M. Marsh..... "
Supt., O. D. Wilson..... "
Well, 20 ft. in diam. 30 ft. deep; one mi. from center distribution.
Pumps, 1-8 x 12 duplex F. M. belted to elec. motor, 24-hp. 2300 v. 3 ph. 60 cys. G. E.; elec. energy from municipal plant; pumpIng to elev. tank, 60,000 gal. steel.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 3-in.; valves, 18 Crane; meter, 150 Pittsburgh & Buffalo; av. daily cons. 100,000 gal.; serv. con. 200; ord. pres. 80 lb., fire pres. same.
Rates; meter, min. charge $1 mo. 3000 gal., 25c. 1000 gal.

SHATTUCK, 1,231.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Vil. Pres., J. E. Green.....Shattuck
Sec., Ed. Lernard..... "
Treas., H. R. Fike..... "
Engr. P'g. Sta., B. Jennings..... "
Boiler, 200-hp. Brownell; steam engines, 180-hp. Brownell.

SHAWNEE, 12,474.
MUNICIPAL. Shawnee Water & Sewer Department.
Supt., E. L. Moon.....Shawnee
Engr. P'g. Sta., H. O. Sheets..... "
Canadian River & wells, 9 ft. in diam. 9 ft. deep; ¾ mi. from center distribution; settling & coagulating basins, 500,000 gal.; mech. filters, 1,5000,000 gal.; chemicals, lime & sulphate of iron.
Boilers, 3 tubular 280-hp. & one 100-hp. Rummeli Dawley; hand stoking; pumps, 4-2,000,000 gal. ea. Epping-Carpenter & Worth.; pumping to elev. tank (1898) 100,000 gal. steel.
Pipe, 27 mi. 4 to 12-in. c. i.; hyd. 17, hose con. 2½-in. Rensselaer; valves, 145; meters, 1850 Buffalo & Pittsburgh; av. daily cons. 800,000 gal.; serv. con.; 1900; ord. pres. 90 lb., fire pres. 125 lb.

SNYDER, 1,122.
MUNICIPAL LIGHT & WATER WORKS.
Pres. Comrs., J. H. Anderson .....Snyder
Sec., Helen M. Stevenson..... "

Treas., J. A. Kruger.....Snyder
Supt., D. L. Vail..... "
Engr. P'g. Sta., E. B. Stevenson..... "
Boilers, 400-hp. Murray; steam engines, 350-hp. Corliss-Murray.

SPIRO, 1,173.
SPIRO LIGHT & WATER WORKS.
Pres., Comrs. W. G. Peters.....Spiro
Contg. Agt., T. R. Lowrie..... "
Supt., W. H. Halderman..... "
Engr. P'g. Sta., J. C. Bullard..... "
Boiler, 150-hp. C. & H.; steam engine, 125-hp. Russell.

STIGLER, 1,583.
MUNICIPAL.
Comr., J. L. Tribble.....Stigler.

STILLWATER, 3,444.
MUNICIPAL ELECTRIC LIGHT & WATER WORKS.
Comr., F. W. J. Holt .....Stillwater
Boiler, 350-hp. Brownell; steam engine 225-hp. Skinner.

STILLWELL, 1,039.
MUNICIPAL LIGHT & WATER COMMISSION.
Pres., J. A. Alberty.....Stillwell
Comr., J. Herrington..... "
" Jim Dodgen..... "
Supt., J. E. Flood, Jr..... "
Engr. P'g. Sta., Geo. M. Smith..... "
Chemist, Dr. R. S. Robinson..... "
Springs; 3 mi. from center business section.
Boiler, tubular 150-hp. 240 lb. Brownell 1911; hand stoking; elec. motors, 25-hp. 2200 v. 3 ph. 60 cys. Ft. Wayne 1911, 2 25-hp. ea. 2200 v. 3 ph. 60 cys. Ft. Wayne 1911; steam engine, 85-hp. Brownell 1911; pumping to standpipe (1911) 50,000 gal. & elev. tank (1911) 50,000 gal. iron.
Pipe, 7 mi. 4 & 6-in. c. i.; hyd. 40 hose con. 2½-im Iowa; valves, 18 r. h. opening Crane; av. daily cons. 20,000 gal.; serv. con. 150; ord. pres. 80 to 90 lb., fine pres. 115 to 125 lb.
Rates; flat, $2.25 quarter, bath 50c., closet $1.25.

SULPHUR, 3,684.
MUNICIPAL.
Supt., Wm. Tolson.....Sulphur
Engr. P'g. Sta., A. Millegan..... "
Springs; one mi. from center business section.
Pumps, 2-1,500,000 gal. hor. comp. Worth. 1907; pumping to standpipe (1908) 100.000 gal.
Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 77, hose con. 2½-in.; valves, 21; meters, 300 Pittsburgh; av. daily cons. 400,000 gal.; serv. con. 500; ord. pres. 95 to 110 lb., fire pres. ame.
Rates; flat, $2 year including bath & closet; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal. max., 12.5c. min.

TAHLEQUAH, 2,891.
MUNICIPAL.
Supt., John R. Hicks.....Tahlequah
Springs & reservoirs, 2-700,000 gal.; ½ mi. from center business section.
Boilers, 2 tubular 70-hp. ea. 100 lb. W. & W. 1905; pumps, 2-900,000 gal. hor. comp. McGowan 1905.
Rates; flat, $2 quarter, bath 75c., closet 75c.; meters, min. charge 60c. mo., 25c. 1000 gal.

TECUMSEH, 1,626.
MUNICIPAL.
Supt., A. W. Keisling.....Tecumseh

THOMAS, 1,371.
MUNICIPAL ELECTRIC LIGHT & WATER WORKS. (Leased to Ross R. Stewart.)
Mgr., Ross R. Stewart.....Thomas
Wells, four 175 ft. deep; near center business section; settling basin, 50,000 gal.
Boilers, fire tube 100-hp. 125 lb. Casey-Hedges 1910, 2 fire tube 60h-p. ea. 100 lb. W. & W. 1907; hand stoking; pumps, 1-300,000 gal. hor. comp. d. act. McGowan 1907; air compressor, 120 cu. ft. L-D-G 1907 steam driven; steam engines, 100-hp. Ide 1907, 225-hp. Ridgway 1910; pumping to standpipe (1907) 100,000 gal.
Pipe, 4 mi. 2 to 6-in. c. i.; hyd. 35, hose con. 2-in. Pratt & Cady; valves, 12 r. h. opening; meters, Pittsburgh & Gamon; av. daily cons. 20,000 gal. 30%; serv. con. 95; ord. pres. 58 to 64 lb., fire pres. 58 to 125 lb.
Rates; flat, 50c. mo.; meter, min. charge 50c. mo. 100 gal., 50c. 1000 gal. max., 35c. min.

TONKAWA, 1,776.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Mayor, T. O. Williams.....Tonkawa
Clerk, E. H. Slatmaker..... "
Supt., R. E. Patterson..... "
Engr. P'g. Sta., W. E. Cooper..... "
Boiler, 330-hp. Erie; steam engine, 200-hp. Erie.

TULSA, 18,182.
MUNICIPAL.
Acting Supt., M. Y. McFarland..... Tulsa
Comr., O. D. Hunt..... "
Engr. P'g. Sta., Robt. Burnett..... "
Chemist, Oscar Brown..... "
Arkansas River; one mi. from center business section; wells, 7 open 40-in. 75 ft. deep; settling basin, 3,000,000 gal.; chemicals, sulphate of iron & lime.
Boilers, 4 100 & 150-hp.; gas fuel; pumps, 1- 6,000,000 gal. Allis-C., 1-4,000,000 gal. Platt, 1-2,000,000 gal. ea. Worth.; elec. motors, 7 kw. 2200 v. 2 ph. 60 cys.; pumping to standpipe (1902) steel.
Av. daily cons. 3,000,000 gal.; serv. con. 4750; ord. pres. 60 to 100 lb.

WAGONER, 4,018.
MUNICIPAL.
Comr., H. B. Raines.....Wagoner

Supt., V. H. Francis.....Wagoner
Grand River; 6.7 mi. from center distribution; mech. filters, 1,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 return tubular 80-hp. English; hand stoking; pumps, 4-2,520,000 gal. Snow & Worth.; elec. motors, 2 25 kw. 2200 v. 3 ph. 60 cys. Westg.; elec. energy from municipal light plant; pumping to standpipe, iron.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 88, hose con. 2½-im Ludlow; valves, 30 r. h. thd. Ludlow; meters, 508 Pittsburgh, Neptune & Thomson; av. daily cons. 650,000 gal.; serv. con. 567; ord. pres. 40 to 58 lb., fire pres. 58 to 90 lb.

Rates; meter, 35c. 1000 gal. max., 20c. min.

WALTER, 1,377.

MUNICIPAL WATER & ELECTRIC LIGHT PLANT.

Chmn. Comrs., S. D. Wolfe.....Walter
Trustee, W. D. Mills..... "
" J. W. Harley..... "
Supt. & Engr. P'g. Sta.,
A. F. Tucker..... "

Wells, 2 open 6 ft. diam. 10 ft. deep; near center business section.

Boilers, 2 80-hp. ea. 110 lb. Brownell 1911; hand stoking; pumps, 2-360,000 gal. hor. comp. d. act. Platt 1911, 4-72,000 gal. ea. hor. duplex Deane & Platt 1911-14 d. con. to steam engine 80-hp. Brownell 1911; pumpIng direct & to standpipe (1911) 75,000 gal. steel, Sherman Iron Works.

Pipe, 8 mi. 2 to 8-in. c. & galv. i.; hyd. 16; valves, 16 r. h. opening; meters, 30 Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 260; ord. pres. 45 to 60 lb., fire pres. 100 to 125 lb.

Rates; flat, $1 mo., bath $1, closet $1.25; meter, min charge $1 mo. 1000 gal., $1 1000 gal. max., 40c. min.

WAPANUCKA, 948.

MUNICIPAL LIGHT & WATER PLANT.

Mayor, Dr. B. L. Neville.....Wapanucka

Boiler, 140-hp.; steam engines, 100-hp. Russell.

WATONGA, 1,723.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Vil. Pres., A. H. Keith.....Watonga
V. Pres., Theodore Gravelman.... "
Treas., E. L. Griffin..... "
Supt., O. A. Hunt..... "

Boiler, 160-hp. Murray; steam engine, 125-hp. Bates.

WAYNOKA, 1,160.

MUNICIPAL LIGHT & WATER WORKS.

Chmn. Comrs., C. E. Hilton.....Waynoka
Comr., G. W. Barnett..... "
Comr., E. A. Windell..... "
Sipt. & Engr. P'g. Sta.,
W. A. Hartman..... "

Wells, 4 tubular 4-in. 32 ft. deep; reservoir, 90,000 gal.

Pumps driven by elec. motor, 7.5-hp. 220 v. 3 ph. 60 cys. F. M. 1911; oil engines, 45 & 100-hp. Chatter 1911–15; pumping to standpipe (1911) 90,000 gal.

Pipe, 5 mi. 6-in. c. i.; hyd. 18, hose con. 3-in. Eureka; valves, 8 l. & r. h. opening; meters, 100 Pittsburgh; av. daily cons. 5000 gal. 100%; serv. con. 115; ord. pres. 60 lb., fire pres. 70 lb.

Rates; flat, $1.25 mo., bath 20c., closet 20c.; meter, min. charge 75c. mo. 1000 gal., 75c. 1000 gal. max., 25c. min.

WEATHERFORD, 2,118.

MUNICIPAL.

Supt., H. J. Cooper.....Weatherford
Engr. P'g. Sta., R. L. Fry..... "

Wells, 200 ft. deep; boilers, 2 150-hp. ea. av. daily cons. 250,000 gal.; serv. con. 320; ord. pres. 55 lb.

Rates; meter, min. charge $1 4000 gal., 15c. 1000 gal.

WELEETKA, 1,229.

CRYSTAL ICE CO.

Pres., F. W. Casner.....Kansas City, Mo.
Gen. Mgr. & Pur. Agt.,
C. A. Parrish.....Weleetka

Impounding reservoir on Canadian River, 2-5,000,000,000,000 gal. & well, 20 ft. diam. 35 ft. deep; ¾ mi. from center business section; settling basin, 1,000,000 gal.; coagulating basin, 500,000 gal.

Boilers, 2 tubular 100-hp. ea. 120 lb. Murray & Kewanee 1909; pumps, 1-1,080,-000 hal. hor. Platt 1911, 1-180,000 gal. vert. triplex Deane driven by elec. motor, 15 kw. 220 v. s. ph. 60 cys. Wagner 1913; steam engines, 100-hp. 1910, 125-hp. Fisher 1907; pumping to elev. tank (1914) 80,000 gal.

Pipe, 10 mi. 4 to 6-in. c. i.; hyd. 18, hose con. 2½-in.; valves, 10 r. h. opening Crane; av. daily cons. 30,000 gal.; serv. con. 80; ord. pres. 60 lb., fite pres. 90 lb.

Rates; flat, $18 year.

WETUMPKA, 1,190.

CRYSTAL ICE CO.

Pres., F. W. Casner.....Wetumpka
Treas., C. S. Casner..... "
Supt. & Engr. P'g. Sta.,
C. A. Parrish..... "

Lake, 4,000,000,000 gal. & well, 4 x 20 ft. 48 ft. deep; 1.65 mi. from center distribution; reservoir, 2,;000,000 gal. no purification.

Boilers, 2 tubular 80-hp. ea. Kewanee & Murray; hand stoking; pumps, 1-1,080,000 gal. Deane, 1-216,000 gal. Platt; elec. motor, 15 hp. 220 v. s. ph. 60 cys. Wagner; pumping to elev. tank (1914) 80,000 gal. steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 14, hose con. 2½-in. Rensselaer, Herron & Brady; valves, 10 r. h. thd.; meters, none; av. daily cons. 30,000 gal.; serv. con. 85; ord. pres. 50 lb., fire pres. 90 lb.

Rates; flat, $1.50 mo.

WOODWARD, 2,696.

MUNICIPAL. Light & Water Commission.

Chmn. Comrs., David Reid.....Woodward
Comr., N. J. Gessler..... "
Comr., Geo. Brophy..... "
Supt., F. H. Kilburn..... "
Engr. P'g. Sta., E. O. Wilkins... "

Wells, 30 tubular 6-in. 20 to 28 ft. deep; 3 mi. from center business section; no purification.

Boilers, 2 fire tube 150-hp. ea. 140 lb. Brownell 1912; hand stoking; pumps, 1-1,500,000 gal. hor. comp. c. & f. wh. Platt 1912; 1-400,000 gal. hor. duplex Platt 1912; 1-1,000,000 gal. hor. centrifugal Platt 1912 d. con. to elec. motor, 20-hp. 220 v. 3 ph. 60 cys. Ft. Wayne, 2-360,000 gal. hor. centrifugal Platt 1912 d. con. to elec. motors, 2 20-hp. ea. 2300 v. 3 ph. 60 cys. Ft. Wayne; elec. motor, 5-hp. 220 v. 3 ph. 60 cys. G. E.; steam turbines, 2 150 & 22-hp. Kerr 1912; pumping direct & to reservoirs, 2-460,000 gal.

Pipe, 13 mi. 4 to 8-in. c. i.; hyd. 81, hose con. 2½-in,; valves, 50 r. h. opening; meters, 650 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 650; ord. pres. 60 to 85 lb., fire pres. 100 to 120 lb.

Rates; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal. max., 10c. min.

WYNNEWOOD, 2,002.

MUNICIPAL WATER & LIGHT DEPARTMENT.

Gen. Mgr. & Pur. Agt.
G. L. Bradfield.....Wynnewood
Engr. P'g. Sta., H. L. Law..... "

Wells, 6 tubular 5-in. 20 ft. deep; one mi. from center business section; no purification.

Boilers, 2 tubular 100-hp. ea. 120 lb. Brownell 1906; hand stoking; pumps, 2-1,000,000 gal. ea. comp. d. act. Deane 1906; steam engines, 120-hp. Straight 120-hp. Skinner 1906; pumping direct.

Pipe, 3 mi. 6 & 8-in. c. i.; hyd. 40, hose con. 2½-in.; valves, 6 r. h. opening Crane; meters, 200 Pittsburgh & Thompson; av. daily cons. 100,000 gal. 75%; serv. con. 300; ord. pres. 75 lb. to 140 lb., fire pres. same.

Rates; flat, $1 mo.; meter, min. charge $1 mo. 2000 gal.

OREGON

ALBANY, 4,257.

OREGON POWER CO. Office, Eugene.
Pres., Elmer Dover.....Tacoma
V. Pres., Attilla Norman.....Eugene
Local Mgr., K. L. White.....Albany
Pur. Agt., F. S. Wing.....Eugene
Supt., W. Hoflich.....Albany

Santiam River; 14 mi. from center business section; settling basins, 300,000 gal.; coagulating basins, 300,000 gal.; mechanical filters, 2,000,000 gal. N. Y. C. Jewell; chemicals, sulphate of alumina and soda ash.

Pumps, 2-1,500,000 gal. hor. comp. c. & f. wh. Dow 1904, 1-1,000,000 gal. vert. duplex Goulds 1905 geared to elec. motor, 85-hp. 2200 v. 3 ph. 60 cys. G. E. 1905; water turbine, 125-hp. Victor; pumping direct.

Pipe, 23 mi. 2 to 12-in. c. i. & galv. i.; hyd. 83, hose con. 2½-in. Ludlow & Rensselaer; meters, none; serv. con. 1215; ord. pres. 30 to 50 lb., fire pres. 100 to 110 lb.

Rates; flat, $1.50 year.

ARLINGTON, 317.

MUNICIPAL.
Mayor, C. C. Clark.....Arlington
Recorder, H. F. Shanks..... "
Supt., R. E. Tozier..... "
Cons. Engr., L. C. Kelsey,
404 Selling Bldg., Portland, Ore.
Chemist, E. R. Nelson.....Arlington

Columbia River; ½ mi. from center distribution; mechanical filters, 432,000 gal.; chemicals, sulphate of alumina.

Boiler, return tubular 40-hp. Crane; hand stoking; pumps, 1-576,000 gal. F. M., 1-504,000 gal. B. J., 1-402,000 gal. Buffalo; gasoline engines, 2 35-hp. ea. F. M.; pumping to reservoir, 85,000 gal.

Pipe, 0.5 mi. 6 & 8-in. steel; hyd. 15, hose con. 2½-in. Kupferle; meters, none; av daily cons. 80,000 gal.; serv. con. 176; ord. pres. 90 lb., fire pres. same.

Rates, flat, $2 mo.

ASHLAND, 5,020.

MUNICIPAL.
Supt., Earl Hosler.....Ashland
City Engr., F. H. Walker..... "

Ashland Creek, a mountain stream; gravity distribution; pipe, 20.5 mi. 4 to 30-in. c. i., steel & wood; hyd. 175, hose con. 2½-in.; av. daily cons. 2,000,000 gal.; serv. con. 1800; ord. pres. 175 to 225 lb., fire pres. same.

Rates; flat, $1.25 mo.

ASTORIA, 9,599.

MUNICIPAL.
Clerk, C. W. Lownsdown.....Astoria

BAKER, 6,742.

MUNICIPAL.
Mayor, Chas. L. Palmer.....Baker
Comr. & Supt., Geo. W. Henry..... "
Comr., Anderson Finley..... "

Impounding reservoir fed by small mountain stream, 150,000,000 gal.; 20 mi. from center distribution; settling basin, 2-8 x 20 x 7 ft. concrete; no purification.

Gravity distribution from reservoir, 5,000,000 gal.; pipe, 50 mi. 4 to 16-in. steel; hyd. 174, hose con. 2½-in. Iowa, Rensselaer & Ludlow; valves, 500 l. h. opening Crane, Ludlow & Rensselaer; meters, 1700 Pittsburgh, National & Buffalo; av. daily cons. 1,500,000 gal.; serv. con. 1800; ord. pres. 85 lb., fire pres. same.

BAY CITY, 281.

TILLAMOOK PUBLIC SERVICE CO.
Pres. R. J. Hendricks.....Bay City
Sec., J. O. Bozorth..... " "
Treas., Scott Bozorth..... " "
Supt., J. H. West..... " "

Mountain stream; 1.5 mi. from center distribution; no purification.

Pumps, 1-504,000 gal. F. M. for emergency; gravity distribution from elev. tank, 15,000 gal. wood.

Hyd. 5, hose con. 2½-in. Salem; meters, 3 Neptune; av. daily cons. 8000 gal.; serv. con. 25; ord. pres. 45 to 90 lb., fire pres. same.

BEND, 536.

BEND WATER, LIGHT & POWER CO.
Pres., Charles A. Brown,
1550 Monadnock Block, Chicago, Ill.
V. Pres., J. P. Keyes.....Bend
Sec. & Treas., Kempster D. Miller,
1848 Monadnock Block, Chicago, Ill.
Mgr. & Supt., T. H. Foley.....Bend
Engr. P'g. Sta., T. A. Stansburrough.. "
" " " A. T. Roberts..... "

Deschutes River; ½ mi. from center distribution; no purification.

Boiler, 25-hp.; pumps, 2-1,000,000 gal. centrifugal Advance, 1-288,000 gal. Platt; elec. motors, 30 kw. 2200 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 130,000 gal.

Pipe, 8 mi. 4 to 12-in. wood; hyd. 17, hose con. 2½-in. valves, 20 r. h. thd. Crane; meters, 4 Pittsburgh; av. daily cons. 300,000 gal.; ord. pres. 50 lb., fire pres. same.

Rates; meter, $3 1000 cu. ft. max., 60c. min.

BROWNSVILLE, 919.

H. B. MOYER ESTATE.
Admr., W. P. Elmore.....Brownsville
Supt., Chas. W. Love..... "

Wells, 12 ft. sq. 12 ft. deep; near center distribution; no purification.

Pump, 1-240,000 gal. Dow; pumping to reservoir, 87,000 gal.

Pipe, 0.25 mi., 4-in. c. i.; hyd. 9, hose con. 3-in.; valves, 2 Union; av. daily cons. 12,000 gal.; serv. con. 110; ord. pres. 44 lb., fire pres. same.

Rates; meter, $2.25 1000 cu. ft.

CONDON, 1,009.

MUNICIPAL.
Mayor, W. R. Cook.....Condon

City Recorder, J. B. Weed.....Condon
Engr. P'g. Sta., Arthur Bousquet.... "
Springs & well, 4-in. 340 ft. deep; 7.5 mi. from center distribution; no purification.
Pumps, 1-144,000 gal. hor. duplex F. M. 1904 geared to gasoline engine, 50-hp. F. M. 1904, 1-36,000 gal. vert. single F. M. geared to gasoline engines; 10-hp. F. M.; pumping to reservoirs, 2-457,000 gal.
Hyd. 20; meters, 250; ord. pres. 65 to 85 lb.
Rates; meter, min. charge $1.50 mo. 1500 gal., 10c. 100 gal.

CORVALLIS, 4,552.
MUNICIPAL. Board of Water Commissioners.
Chmn., A. R. Woodcock.....Corvallis
Clerk, Floyd E. Bogue..... "
Comr., V. P. Moses..... "
" B. J. Thatcher..... "
Supt., E. L. Strange..... "
Impounding reservoirs and mountain streams, 2-800,000 gal.; 14 mi. from center business section; gravity distribution.
Pipe, 45 mi. 4 to 12-in. wood; hyd. 100, hose con. 2½-in. Rensselaer & Ludlow; valves, 156 l. h. opening Crane; meters, 1400 Union & Worth.; av. daily cons. 115; serv. con. 1600; ord. pres. 80 lb., fire pres. 70 to 80 lb.
Rates; meter, min. charge 90c. mo. 5000 gal., 18c. 1000 gal. max., 8c. min.

COTTAGE GROVE, 1,834.
MUNICIPAL.
Ass't Comr., G. Warner.....Cottage Grove
Springs & reservoirs, 400,000 gal.; 20 mi. from center business section; gravity distribution.
Pipe, 20 mi. 12-in. wood; hyd. 28, hose con. 2½-in. Kupferle & Iowa; ord. pres. 85 to 90 lb., fire pres. same.
Rates; flat, $1, including bath, closet 25c.

DALLAS, 2,124.
DALLAS WATER CO.
Pres. & Des. Engr., H. V. Gates.....Dallas
Supt., M. L. Soehren..... "
Canyon Creek; 6 mi. from center distribution; no purification.
Gravity distribution from reservoirs, 2-1,000,000 gal.; pipe, 15.75 mi. 2½ to 12-in. c. i.; hyd. 51. hose con. 2½-in.; valves, 96 r. h. thd. Crane; meters, 400 Neptune; av. daily cons. 300,000 gal.; serv. con. 600; ord. pres. 78 lb., fire pres. same.
Rates; flat, 80c. mo., bath 25c., closet 50c.; meter, 30c. 100 cu. ft. max., 8c. min.

ENTERPRISE, 1,242.
MUNICIPAL.
Supt., S. K. Clark.....Enterprise
Springs; gravity distribution from reservoir, 1,000,000 gal.
Pipe, 12 mi. 4 to 12-in. wood; hyd. 18, hose con. 4-in.; av. daily cons. 400,000 gal.; serv. con. 350; ord. pres. 85 lb., fire pres. same.

EUGENE, 9,009.
MUNICIPAL.
Gen Supt., C. A. Whipple.....Eugene

FOREST GROVE, 1,772.
MUNICIPAL.
Supt., P. W. Watkins.....Forest Grove
Small streams; 9 mi. from center distribution; no purification.
Gravity distribution from reservoir, 640,-000 gal.
Pipe, 10 mi. 4 to 12-in. wood; hyd. 50, hose con. 2½-in. Rensselaer; meters, 250 various; av. daily cons. 6000 gal.; serv. con. 500; ord. pres. 60 to 85 lb., fire pres. same.
Rates; meter, min. charge $1 6000 gal., 10c. 1000 gal.

FOSSIL, 421.
MUNICIPAL.
Mayor, J. A. Miller.....Fossil
Springs; 2.5 mi. from center distribution; gravity distribution from reservoirs, 2-64 ft. sq. 8 & 8½ ft. deep; av. daily cons. 120,000 gal.
Rates; flat, $6.25 mo.

GERVAIS, 276.
MUNICIPAL.
Mayor, A. DeJardin.....Gervais
Comr., Ed. Dupuis..... "
" Frank Culsforth..... "
Well, 6-in. 123 ft. deep; near center business section; no purification.
Pump driven by gasoline engine, 4-hp. Stover 1911; pumping to pressure tank, 6,000 gal.
Pipe, ¾ mi. 2 to 4-in. c. i.; hose con. 2-in.; meters, 9; av. daily cons. 3000 gal.; serv. con. 10; ord. pres. 60 lb., fire pres. same.
Rates; flat, $1.50 mo.; meter, min. charge $1.65 mo. 4000 gal.

GRANTS PASS, 3,897.
ROGUE RIVER WATER CO. OF GRANTS PASS.
Pres., C. K. Williams.....Grants Pass
Sec., F. B. Pratt..... " "
Supt. Mgr., R. W. Clarke..... " "
Rogue River; one mi. from center distribution; chemical, hypochlorite of lime.
Boilers, 2 tubular 80-hp.; pumps, 2-1,400,000 gal. B. J.; elec. motors, 240 kw. 2200 v. 3 ph. 60 cys. G. E.; elec. energy from California-Oregon Power Co.; pumping direct & to reservoir, 2-704,000 gal.
Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 48, hose con. 2½-in. Rensselaer; valves, 60 r. h. thd. Crane; meters, 600 Neptune; av. daily cons. 428,000 gal.; serv. con. 1001; ord. pres. 60 to 75 lb., fire pres. same.
Rates; flat, 90c. mo., bath 25c., closet 50c.; meter, 40c. 100 cu. ft. max., 8c. min.

GRASS VALLEY, 342.
MUNICIPAL. Electric Light & Water Plant.
Mayor, M. T. Taylor.....Grass Valley

Sec., John Odell.....Grass Valley
Treas., Bert B. Baker..... " "
Supt., E. C. Franklin..... " "
Gas engine, 32-hp. F. M.

HEPPNER, 2,000.

HEPPNER LIGHT & WATER CO.
Pres. & Des. Engr., H. V. Gates...Portland
Sec., Gen. Mgr. & Pur. Agt.,
W. A. Pruyn.....Heppner
Treas., O. B. Gates.....Hillsboro
Wells, 2 tubular 8-in. 300 to 375 ft. deep; ¼ mi. from center distribution; no purification.
Buy steam from electrical plant of same company; boilers, 330-hp. A. & R., B. & W.; hand stoking; pumps, 1-126,000 gal. simple d. act. Cook 1893, 1-250,000 gal. vert. duplex Ames 1905 belted to steam engine, 15-hp. 1905, pumping to reservoir, 3-410,000 gal.
Pipe, 7 mi. 2 to 8-in. w. i.; hyd. 30, hose con. 2½-in. Rensselaer & Ludlow; valves, r. h. opening Crane; meters, none; serv. con. 294; ord. pres. 33 to 48 lb., fire pres. 80 to 100 lb.
Rates; flat, $1.50 mo., bath 60c., closet 50c.

HILLSBORO, 2,016.

WASHINGTON-OREGON CORPN. Gen. office, 1311 Yeon Bldg., Portland, Ore.
Pres., Isaac W. Anderson...Tacoma, Wash.
Sec., J. B. Stephens.....Philadelphia, Pa.
Treas., Clyde A. Heller.... " "
Gen. Mgr., H. B. Fleischhauer.....Portland
District Mgr., R. R. Easter.....Hillsboro
Sain Creek; 18 mi. from center distribution; no purification.
Gravity distribution.
Pipe, 10 mi. 4 to 12-in.; hyd. 52, hose con. 2½-in.; meters, 500 Neptune; av. daily cons. 150,000 gal.; serv. con. 600; ord. pres. 72 to 75 lb., fire pres. same.
Rates; all meter, 33½c. 1000 gal. max., 10c. min.

HOOD RIVER, 2,331.

MUNICIPAL.
Supt. & City Engr., P.M. Morse, Hood River
Clerk, L. C. Johnson..... " "
Springs; 5.5 mi. from center distribution; reservoir, 30,000 gal.; no purification.
Gravity distribution from reservoir, 500,000 gal.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 42, hose con. 2½-in. Waterous & Iowa; valves, 75 r. h. thd. Crane; meters, 7 Pittsburgh; serv. con. 700; ord. pres. 35 to 130 lb., fire pres. same.
Rates; flat, $1.25 mo., bath 25c., closet 25c.; meters, 33c. 1000 gal., 16c. min.

INDEPENDENCE, 1,160.

OREGON POWER CO. Office, Eugene.
For officers, see Albany.
Loc. Mg ., A. L. Martin.....Independence
Supt., E. M. Blenis..... "
Chemist, R. E. Curtis..... "
Wells, 14 3 to 8 -in. 31 ft. deep; ¼ mi. from center distribution.
Boiler, 50-hp. Washington; pumps, 1-432,000 gal. duplex Goulds, 1-864,000 gal. duplex Deane; elec. motor, 35-hp. 440 v. 3 ph. 60 cys. G. E.; pumping to elev. tank (1890) 13,000 gal. wood.
Pipe, 2.6 mi. 4 to 12-in. w. i.; hyd. 24, hose con. 2½-in.; valves, 27 r. & l. h. thd. Chapman & Crane; meters, 117 Pittsburgh & Neptune; av. daily cons. 75,000 gal.; serv. con. 350; ord. pres. 18 to 25 lb., fire pres. 80 to 95 lb.
Rates; flat, $1 mo., including bath & closets; meter, 20c. 1000 gal.

IONE, 239.

ELECTRIC LIGHT & WATER PLANT.
Mayor, E. L. Padburg.....Ione
Recorder, C. J. Pennington..... "
Supt., E. E. Miller..... "
Engr. P'g. Sta., Geo. Frank..... "
Well, 10 ft. diam. 24 ft. deep; near center business section; pumping station, 500,000 gal.
Boiler, 60-hp. 100 lb. Atlas 1906; hand stoking; pumps, 1-460,000 gal. hor. simple d. act. F. M. 1906; pumping to reservoir.
Pipe, 1.5 mi. 4 to 8-in wood; hyd. 15, hose con. 3-in.; valves, 12 r. h. opening; meters, none; av. daily cons. 20,000 gal.; serv. con. 250; fire pres. 20 to 76 lb., fire pres. same.
Rates; flat, $1.65 mo., bath 25c., closet 20c.

JEFFERSON, 415.

MUNICIPAL. Jefferson Municipal Light & Water Plant.
Supt., F. W. Allen.....Jefferson
Santiam River; one mi. from center distribution; slow sand filter; 288,000 gal.; chemicals, none.
Pumps, 1-288,000 gal. Goulds belted to water-turbines; pumping to reservoir, 55,000 gal.
Hyd. 18, hose con. 3-in. Salem; valves, 5 r. h. thd. Crane; meters, none; av. daily cons. 50,000 gal.; serv. con. 105; ord. pres. 60 to 80 lb., fire pres. same.

JOSEPH, 725.

MUNICIPAL.
Mayor, F. F. McCully.....Joseph
Supt., W. S. Horrell..... "
Wallowa Lake; 1.25 mi. from center business section.
Gravity distribution; hyd. 50, hose con. 2½-in.; meters, none.
Rates; $1 mo., including bath & closet.

JUNCTION CITY, 759.

JUNCTION CITY WATERWORKS.
Owner & Supt., J. H. Miller..Junction City
Well, 8-in. 50 ft. deep; near center distribution; no purification.
Pumps, 2-238,000 gal. F. M. driven by elec. motor, 3 ph. F. M.; elec. energy from Oregon Power Co.; pumping to pressure tank, 2200 gal.
Pipe, 1.5 mi. 4 to 12-in.; hyd. 3, hose con. 2-in.; av. daily cons. 75,000, gal.; serv. con.

200; ord. pres. 45 to 50 lb., fire pres. 60 to 75 lb.

KLAMATH FALLS, 2,758.

KLAMATH FALLS LIGHT & WATER Co.
Pres., J. W. Churchill.....Yreka, Cal.
Sec. & Gen. Mgr.,
A. J. Rosborough, San Francisco, Cal.
Treas., J. P. Churchill.....Yreka, Cal.
Pur. Agt., H. L. Walther.....Medford
Supt., Geo. J. Walton.....Klamath Falls
Cons. Engr.,
Sidney Sprout.....San Francisco, Cal.
Engr. P'g. Sta.,
O. H. Brenneman.....Klamath Falls

Springs & reservoirs, 3-1,000,000 gal.; ¾ mi. from center distribution: no purification.

Pumps, 1-720,000 gal. triplex Goulds 1905 geared to elec. motor, 50-hp. 2300 v. 3 ph. 60 cys. G. E. 1905, 1-1,080,000 hor. centrifugal Tripe 1908 d. con. to elec. motor, 100-hp. 2300 v. 3 ph. 60 cys. G. E. 1908; elec. energy from California-Oregon Power Co.; pumping direct & to reservoir, above.

Pipe 26 mi. 3 to 12-in. w. i.; hyd. 111; valves, r. h. opening Crane; meters, 75 various; av. daily cons. 700,000 gal.; serv. con. 1200 gal.; ord. pres. 90 to 105 lb., fire pres. same.

Rates; flat, $1 mo., bath 50c., closet 50c.; meters, min charge $1.50 mo. 6000 gal., 24c. 1000 gal. max., 20c. min.

LA GRANDE, 4,843.

MUNICIPAL.
Gen. Mgr., F. J. Lafky.....La Grande
Comr., Mac Wood..... " "
" J. A. Russel..... " "
" John C. Gardner..... " "
Supt., L. M. Hoyt..... " "

Beaver Creek; 16 mi. from center distribution; gravity distribution from reservoir, 1,000,000 gal.

Hyd. 115, hose con. 2½-in. Rensselaer, Waterous & Kupferle; valves, 230 r. h. thd. Crane; meters, 1700 Neptune & Pittsburgh; av. daily cons. 1,000,000 gal.; serv. con. 173; ord. pres. 97 lb., fire pres. same.

LEBANON, 1,820.

LEBANON ELECTRIC LIGHT & WATER Co.
Pres. & Treas., J. C. Mayer.....Lebanon
Sec., S. M. Garland..... "
V. Pres., S. P. Bach..... "
Mgr., S. I. Stewart..... "

Santiam River; 3 mi. from center business section; no purification.

Boiler, hor. tubular 200-hp. Ames; oil, pumps, 1-1,500,000 gal. Dow belted to elec. motor, 300 kw. 2300 v. 2 ph. 60 cys. Westg.; pumping direct & to elev. tank, 13,000 gal. wood.

Pipe, 3.5 mi. 4 to 12-in c. i. & Worth.; hyd. 31, hose con. 2½-in. Kupferle; valves, 46 r. & l. h. thd. Crane & Chapman; meters, 4 Neptune; av. daily cons. 300,000 gal.; serv. con. 320; ord. pres. 65 lb., fire pres. 125 lb.

Rates; flat, $1 mo.; meter, 20c. 1000 gal. max., 14c. min.

MARSHFIELD, 2,980.

COOS BAY WATER Co. Supplies North Bend.
Pres., Jos. H. Flanagan.....Marshfield
V. Pres., J. W. Bennett..... "
Sec. & Treas., R. F. Williams.... "
Gen .Mgr., R. H. Corey..... "

Pony Creek; 2 mi. from center distribution; no purification.

Boilers, 2 hor. tubular 40 & 60-hp.; hand stoking; pumps, 1-1,000,000 gal. Worth., 1-576,000 gal. Worth., 1-1,440,000 gal. centrifugal Worth. d. con. to elec. motor, 100-hp. G. E.; elec. energy from Oregon Power Co.; pumping equipment is for emergency only, ordinarily distribution is by gravity from reservoir, 400,000 gal. & elev. tank, 50,000 gal. wood.

Pipe, 21.5 mi. 4 to 30-in. c. i., steel & wood; hyd. 78 various; meters, 50 various; av. daily cons. 900,000 gal.; serv. con. 1200; ord. pres. 75 lb., fire pres. same.

Rates; flat, 20c. mo., bath 25c., closet 50c.; meter, min. charge $1.40 mo., 40c. 100 cu. ft. max., 6c. min.

MEDFORD, 8,840.

MUNICIPAL. Board of Water Commissioners.
Chmn. Comrs., T. W. Miles.....Medford
Comr., F. V. Medquski..... "
" H. H. Sargent..... "

Little Butte Creek & Fisk Lake; 23 mi. from center business section; no purification.

Pump, one vert. centrifugal d. con. to elec. motor, 135-hp. 220 v. 3 ph. 60 cys. G. E.; pumping to reservoir, 1-2,225,000 gal.

Pipe, 27 mi. 4 to 27-in. c. i.; hyd. 287, hose con. 2½-in. Rensselaer & Kupferle: valves, l. h. opening Crane; meters, 107 Pittsburgh, Neptune & National; av. daily cons. 4,000,000 gal.; serv. con. 2300; ord. pres. 40 to 100 lb., fire pres. same.

Rates; flat, $1.50 mo., including bath & closet; meter, min, charge $1.50 mo. 5000 gal., 12c. 1000 gal. max., 8c. min.

MILTON, 1,280.

MUNICIPAL.
Mayor, H. E. McQuary.....Milton
Comr., G. W. Johnson..... "
" C. D. Hobs..... "
" M. H. Ricep..... "
Business Mgr., L. E. Coyle..... "
Recorder, C. R. Samuel..... "
Engr. P'g. Sta., F. C. Ellis..... "

Walla Walla River; 3 mi. from center business section; mechanical filters, 1,000,000 gal. Pittsburg.

Boilers, driven by water turbine, 600-hp. Victor & elec. motor 25-hp. 2300 v. 3 ph. 60 cys. G. E. 1914.

MILWAUKEE, 800.

MILWAUKEE WATER Co.
Pres., Theodore Fisch.....Portland

Sec., Treas. & Gen. Mgr.,
B. M. Fisch.....Milwaukee
Wells, 3 6-in. 30 ft. deep; ¾ mi. from center business section.

Pumps, 1-57,000 gal. hor. Bulldozer 1908 d. con. to elec. motor, 7.5-hp. 220 v. 3 ph. 60 cys. Western 1908, 1-20,000 gal. hor. Bulldozer d. con. 1904 to water turbine, 1-100,000 gal. centrifugal Jackson 1912 d. con. to elec. motor, 10-hp. 220 v. 3 ph. 60 cys. F. M. 1912.

MOLALLA, 200.
MUNICIPAL.
Mayor, W. W. Everhart.....Molalla
Recorder, D. C. Boyles..... "
Supt., I. M. Toliver..... "
Des. Engr., V. R. Dennis..... "
Engr. P'g. Sta., Rex W. Lewis..... "
Well, 8-in. 270 ft. deep; ¾ mi. from center distribution; no purification.

Pumps driven by gasoline engine 20-hp. International; pumping to elev. tank, 25,000 gal. wood.

Pipe, 3000 ft. 6-in.; hyd. 24, hose con. 2½-in.; av. daily cons. 15,000 gal.; serv. con. 40; ord. pres. 30 to 50 lb., fire pres. same.

MONMOUTH, 493.
MUNICIPAL.
Supt., Frank Moreland.....Monmouth
Well, 10-in. 265 ft. deep; ¼ mi. from center distribution; no purification.

Pump, 1-86,400 gal. Keystone driven by elec. motor, 200 v. 60 cys. G. E.; pumping to reservoir, 300,000 gal.

Hyd. 22, hose con. 3-in.; meters, 61 National; av. daily cons. 50,000 gal.; serv. con. 115; ord. pres. 36 to 48 lb., fire pres. same.

Rates; meter, min. charge $1.50 for 3000 gal.

MORO, 378.
MUNICIPAL.
Supt., M. A. Bull.....Moro
Engr. P'g. Sta., C. E. Sheets..... "
Wells, tubular; pumps driven by gasoline engine, 2.

Rates; meter, min. charge $1.50 2000 gal., 40c. 1000 gal.

MT. ANGEL, 545.
MUNICIPAL.
Mayor, Paul S. Fuchs.....Mount Angel
City Recorder & Clerk,
J. J. Buchheit..... " "
Well, 8 ft. in diam. 46 ft. deep; at center distribution; no purification.

Pumps, 1-60,000 gal. driven by elec. motor, 6-hp.; elec. energy from Salem; pumping to elev. tank, 30,000 gal. wood.

Hyd. 13, hose con. 2½-in.; valves, r. h. thd.; meters, 60 Neptune; av. daily cons. 3000 gal.; serv. con. 80; ord. pres. 25 to 32 lb., fire pres. same.

MYRTLE CREEK, 429.
MUNICIPAL.
City Clerk, Kitt Ackert.....Myrtle Creek
Spring & reservoir, 85,000 gal.; pump driven by gas engine 35-hp. F. M. & elec. motor 30-hp. 120 v. 208 cys. F. M. 1912.

Pipe, 5 mi. 2 to 5-in .; hyd. 14, hose con. 2½-in.; valves, 14 l. h. opening; meters, 15; av. daily cons. 1500 gal., serv. con. 120; ord. pres. 75 to 250 lb.

Rates; flat, $1 mo., bath $1.25, closet $1.50; meter, min. charge $1 mo. 5000 gal.

NOSTRAND, 2,078.
Supplied by Coos Water Co. See Marshfield.

ONTARIO, 1,248.
IDAHO-OREGON LIGHT & POWER CO.
Franchise covering this plant expires in December, 1915.

PENDLETON, 4,460.
MUNICIPAL. Board of Water Commissioners.
Chmn., J. T. Brown.....Pendleton
Clerk, C. P. Strain..... "
Comr., V. Stroble..... "
" J. A. Best..... "
" W. H. McCormmach..... "
Supt., F. B. Hayes..... "
Springs & reservoirs; ¼ mi. from center business section; no purification; gravity distribution from reservoir, 2-1,000,000 gal. ea.

Pipe, 7.4 mi. 4 to 12-in. c. i. & kalamein; hyd. 96, hose con. 2½-in various; valves, 130 r. h. thd.; meters, 1107 Pittsburgh & Neptune; av. daily cons. 1,000,000 gal.; serv. con. 1138; ord. pres. 75 to 115 lb., fire pres. same.

Rates; meters, min. charge $1.25 for 4000 gal., 25c. 1000 gal. max., 7.5c. min.

PORTLAND, 207,214.
MUNICIPAL.
Supt., L. S. Kaiser.....Portland
City Engr., John R. Hanson..... "
Asst. Engr., F. M. Randlett..... "
Bull Run Lake & River; 30 mi. from center distribution; no purification.

Pumps, 6-2,750,000 gal. 2 Reidler, 3 Goulds & one Platt; elec. motors, 15 & 100-hp. 220 v. 3 ph. 60 cys. G. E., 35-hp. 220 v. 3 ph. 60 cys. Allis-C.; pumping to reservoir, 196,000,000 gal. & standpipe, 3 (1906, 1910, 1911) steel.

Pipe, 506.7 mi. c. i., 30 mi. 32 & 52-in. steel; hyd. 4558, hose con. 2½-in. Rensselaer, Ludlow & Columbian; valves, 6172 l. h. thd. Rensselaer & Ludlow; av. daily cons. 35,000,000 gal.; serv. con. 57,200; ord. pres. 40 to 130 lb., fire pres. same.

Rates; meter, 10c. 100 cu. ft. max., 8c. min.

PRINEVILLE, 1,042.
DES CHUTES POWER CO. Office, 521 First Ave., Spokane, Wash.
Pres., Sam Galland.....Spokane
V. Pres., W. C. Sivyer..... "
Sec. & Treas., B. L. Sivyer..... "
Gen. Mgr. & Pur. Agt.,
L. M. Simpson..... "

Supt., C. L. Shattuck.....Prineville
Wells, 18 tubular 6-in. to 50 ft. deep; reservoir, 100,000 gal.
Pumps,1-300,000 gal. vert. triplex Deane 1914 grared to elec. motor 20-hp. 2300 v. 3 ph. 60 cys. G. E. 1914, 1-900,000 gal. hor. centrifugal Worth. 1914 d. con. to elec. motor, 75-hp. 2300 v. 3 ph. 60 cys. G. E. 1914; pumping to reservoir above.
Pipe, 15 mi. 2½ to 6-in steel; hyd. 43, hose con. 2½-in. Cortland & Ludlow; valves, 30 l. h. opening Crane; meter, 6 Neptune; av. daily cons. 100,000 gal.; ord. pres. 35 to 40 lb., fire pres. 100 to 125 lb.
Rates; flat, $1.50 mo., bath 50c., closet 50c.; meter, min. charge $1.50 mo., 25c. 1000 gal. max., 20c. min.

ST. JOHNS, 4,872.
St. Johns Waterworks & Lighting Co., Inc.
Pres., H. L. Powers.....St. Johns
V. Pres., P. H. Edlefsen..... "
Sec., R. M. Montague..... "
Well, 18 x 26 ft. 75 ft. deep; one mi. from center distirbution.
Boilers, 2 return tubular 70-hp. ea Kewanee; hand stoking; pumps, 2-3,000,000 gal. Gardner; pumping to reservoir, 350,000 gal. & elev. tanks, 3-250,000 gal. wood.
Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 55, hose con. 2½-in. Rensselaer; valves, 280 r. h. thd. Rensselaer, National & Crane; meters, 118 various; av. daily cons. 500,000 gal.; serv. con. 1300; ord. pres. 15 to 85 lb., fire pres. same.
Rates; flat, 90c. mo., bath 20c., closet 50c.; meter, 40c. 100 cu. ft. max., 6c. min.

SEASIDE, 1,121.
Municipal.
Supt., J. E. Dillion.....Seaside
Water Collector, J. L. Berry..... "
Beermon Creek; 4 mi. from center distribution. gravity distribution from elec. tanks (1914) 75,000 gal. steel.
Valves, r. h. thd.; av. daily cons. 50,000 gal.; cerv. con. 250; ord. pres. 100 lb.

SHANIKO, 200.
Municipal.
Recorder, A. R. Altermatt.....Shaniko
Engr. P'g. Sta., G. H. Davis..... "
Springs; ½ mi. from center distribution.
Boiler, 40-hp.; pumps, 1-480,000 gal.; hyd. 6, hose con. 2½-in.; av. daily cons. 50,000 gal.
Rates; meter, 50c. 1000 gal.

SHERIDAN, 1,021.
Sheridan Municipal Corporation.
Supt., F. M. Dickey.....Sheridan
Member, B. H. Evans..... "
" C. A. Wilson..... "
" A. J. Flynn..... "
" J. R. Sanders..... "
Springs; ¼ mi. from center business section.

SILVERTON, 1,588.
Municipal. Board of Water Commissioners.
Chmn., P. W. Potter.....Silverton
Member, W. A. Reynolds..... "
Sec., A. E. Wrightman..... "
Supt., R. B. Mount..... "
Silver Creek River; 4.5 mi. from center business section; no purification.
Boiler, 40-hp. 100 lb. Erie 1890; pumps, 1-720,000 gal. vert. duplex Goulds belted to steam engine 25-hp. Ball 1980; elec. motor, 20-hp. 220 v. 60 cys. G. E. 1908; elec. energy from Portland Railway Light & Power Co.; pumping to reservoir, 200,000 gal.
Pipe, 10 mi. 2 to 10-in. c. i. steel & wood; hyd. 39, hose con. 2½-in. Oregon; valves, 32 l. h. opening Crane; meters, 12 Neptune & Pittsburgh; serv. con. 400; ord. pres. 65 65 to 95 lb., fire pres. same.
Rates; flat, $1 mo., bath 25c. closet 25c.; meter, min. charge $1 mo., 25c. 100 cu. ft. max., 5c. min.

SPRINGFIELD, 1,838.
Oregon Power Co. Office, Eugene. For officers see Albany.
Supt., A. P. Tills.....Springfield
Willamette River; ½ mi. from center distribution; mech. filters, 1,000,000 gal.; chemical, hypochlorite of lime.
Pumps, 1-720,000 gal. Platt, 1-576,000 gal. Worth. 1-1,440,000 gal. Buffalo; steam furnished by elec. department; pumping to reservoir, 1,000,000 gal. & direct for fires.
Hyd. 34, hose con. 2½-in. various; valves, r. h. thd. Crane; meters, 20 Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 300; ord. pres. 75 to 86 lb., fire pres. 100 lb.

STAYTON, 703.
Municipal.
Supt., J. B. Gardner.....Stayton
Santiam River; no purification; pumps, 1-500,000 gal. duplex 1907 belted to water turbine, 23-hp. Victor; pumping direct.
Pipe, 3 mi. 1 to 6-in. steel & iron; hyd. 17, hose con. 2½-in. Salem; valves, 6 l. h. opening.
Rates; flat, 75c. mo., bath 25c., closet 25c.

SUMPTER, 643.
Northwest Light & Power Co. Office, 915 Paulsen Building, Spokane, Wash.
Pres., R. E. Strahorn.....Spokane
V. Pres., R. J. Danson..... "
Treas., A. G. Smith..... "
Supt., W. E. Weed.....Sumpter
Mountain streams; gravity distribution from reservoir, 1,000,000 gal.
Pipe, 36 mi. 2 to 10-in. wood; hyd. 25, hose con. 2½-in. Ludlow; valves, 22 l. h. opening Crane; meters, none; av. daily cons. 100,000 gal.; serv. con. 175; ord. pres. 40 to 90 lb., fire pres. same.
Rates; flat, $1.40 mo. including bath, closet $1; meters, min. charge $1.40 mo., 25c. 1000 gal. max., 15c. min.

THE DALLES, 4,880.

MUNICIPAL.

City Pres., T. A. Hudson.....The Dalles
Supt., J. R. Chambers..... " "

Dog River; 30 mi. from center distribution; gravity distribution from reservoirs, 3-4,100,000 gal.

Pipe, 13 mi. 4 to 30-in. steel, 13 mi. wood; hyd. 100, hose con. 2½-in.; meters, 10; av. daily cons. 900,000 gal.; serv. con. 1500; ord. pres. 80 lb., fire pres. 120 lb.

TILLAMOOK, 1,352.

MUNICIPAL.

Pres., Comrs., W. G. Dwight.....Tillamook
Sec., J. C. Holden..... "
Treas., C. A. McGhee..... "
V. Pres., Erwin Harrison..... "
Comr., David O'Donnell..... "
Supt., John Aschin..... "

Killam Creek; 7 mi. from center distribution; no purification.

Gravity distribution from reservoir, 10 x 20 x 6 ft.& pipe, 20 mi. 4 to 12-in.; hyd. 50, hose con. 2½-in. Crane; meters, none; serv. con. 400; ord. pres. 85 to 100 lb.

Rates; flat, $1 mo., bath 50c., closet 50c.

UNION, 1,483.

MUNICIPAL. Board of Water Commissioners.

Chmn. Comr., Mr. Wigglesworth....Union
Comr., Mr. Jones..... "
" Mr. Davis..... "
Sec., L. Z. Terrall..... "

Catherine River; 2 mi. from center business section; settling basins, 75 gal.; gravity distribution.

Pipe, 6.5 mi. 4 to 12-in. steel; hyd. 42, hose con. 2½-in. Ludlow, Iowa & Rensselaer; valves, 20 r. h. opening Crane; ord. pres. 55 to 60 lb., fire pres. same.

Rates; flat, $1.25 mo., including bath, closet $1.25.

PENNSYLVANIA

AARONSBURG, 400.
MUNICIPAL.
Dir., W. A. Greisewite.....Aaronsburg
Treas., C. E. Musser..... "
Sec., A. S. Stover..... "
Supt., E. L. Stover..... "
Mountain springs; no purification; gravity distribution.
Hyd. 12, hose con. 4-in.; meters, none; av. daily cons. 3500 gal.; serv. con. 3; ord. pres. 150 lb.

ALDEN, 661.
SUPPLY FROM NANTICOKE.

ALIQUIPPA, 1,743.
MUNICIPAL.
Supt., W. H. Flocker.....Aliquippa
Wells, 11 tubular 6 & 7-in. 30 ft. deep; ¼ mi. from center distribution.
Pumps, 3-2,100,000 gal. Goulds & 2 driven by gas engines, 3-90, 40 & 35-hp. Bessemer & 2 Champion; pumping to tanks, 280,000 gal.
Pipe, 3 mi. 3 to 12-in. c. i.; hyd. 21, hose con. 2½-in. Rensselaer; meters, 350 National & Pittsburgh; av. daily cons. 350,000 gal.; serv. con. 350; ord. pres. 90 lb.
Rates: meter, 25c. 1000 gal.

ALLENTOWN, 51,913.
MUNICIPAL.
Gen. Supt., Robert J. Wheeler...Allentown
Supt., Wm. H. Reichard..... "
Asst. City Engr.,
Chas. W. Blazer..... "
Clerk, J. T. Bernhard..... "
Springs; near center distribution.
Sta. No. 1: boilers, 3 hor. return tubular 125 & 150-hp. 100 lb. Heilman 1900–10; pumps, 2-3,000,000 gal. ea. hor. comp. duplex d. act. Knowles 1888. Sta. No. 2: boilers, 2 water-tube 256-hp. ea. 125 lb. Franklin 1906 water-tube 303-hp. 140 lb., Sterling 1907; pumps, 1-8,000,000 gal. hor. duplex tri. exp. c. & f. wh. Holly 1900; 1-10,000,000 gal. hor. comp. duplex d'Auria 1905; pumping direct & to standpipe (1898) 190,000 gal. steel.
Pipe, 74 mi. 3 to 36-in. c. i.; hyd. 611, hose con. 2½ & 4½-in.; valves, 127 mostly Rensselaer; meters, 1400; av. daily cons. 8,767,000 gal.; serv. con. 14,600; ord. pres. 42 to 98 lb.

ALTOONA, 52,127.
MUNICIPAL.
Supt., S. A. Gailey.....Altoona
Burgoon, Scotch & McGarvey Runs; gravity distribution.

ALLEGHENY WATER CO. Supplies part of Altoona.
John Lloyd, Jr.....Altoona
Mill Run; pumping.

AMBLER, 3,649.
AMBLER SPRING WATER CO.
Pres., R. V. Mattison.....Ambler
V. Pres., R. V. Mattison, Jr..... "
Sec., E. M. Sage..... "
Treas., W. G. Funk..... "
Supt., Wm. J. Devine..... "
Springs & impounding reservoir, 20,000-000 gal.; one mi. from center distribution; chemical, copper sulphate.
Boilers, 2; hand stoking; pumps, 3 Goulds, Blake & Worth.; elec. motor, one; elec. energy from Ambler Elec. Light, Heat & Motor Co.; pumping direct & to elev. tanks, 100,000 gal. stone.
Pipe, 18.2 mi. 4 to 12-in. c. i.; hyd. 79, hose con. 2½-in. R. D. W. & Rensselaer; valves, 177 r. h. thd. Rensselaer; meters, 400 various; ord. pres. 22 to 80 lb., fire pres. 80 lb.
Rates: flat, min. $8 year; meter, min. charge $12 year, 25c. 1000 gal.

APOLLO, 3,006.
APOLLO WATERWORKS CO. Supplies Leechburg Waterworks Co.
Gen. Supt. & Ch. Engr.,
W. C. Hawley.....Apollo
Supt., D. C. Shull..... "
Sec. & Treas., Jos. T. Miller..... "
V. Pres., Geo. S. Davison..... "
Impounding reservoir on Beaver Run, 20,000 gal.; one mi. from center distribution; slow sand filter, 2-2,000,000 gal. ½ acre ea.; chemicals, none.
Pumps, 1-1,000,000 gal. Deane, 1-1,500-000 gal. Platt driven by gas engines, 2 85 & 125-hp. Alberger & Westg.; pumping to reservoir, 9,500,000 gal.
Pipe, 6 mi. 4 to 12-in. c. & w. i.; hyd. 43, hose con. 2½-in. Ludlow; valves, 96 l. h. opening Rensselaer; meters, 768 various; av. daily cons. 480,000 gal.; serv. con. 768; ord. pres. 40 to 110 lb., fire pres. same.
Rates: all meter, min. charge $3.75 quarter 1000 cu. ft., 30c. 100 cu. ft. max., 10c. min.

APPLEWOLD, 300.
FRANKLIN WATER CO. Office, 108 No. McKean St., Kittaning, Pa.
Pres., Treas. & Gen. Mgr.,
Boyd C. Henry.....Applewold
Sec., David H. Henry..... "
Springs; 1000 ft. from center distribution; reservoirs, 3-50,000 gal.; no purification.
Gravity distribution from reservoirs above.
Pipe, 4 mi. 1 to 4-in. c. i.; hyd. one, hose con. 2-in.; valve, one r. h. thd.; meters, 70 Pittsburgh; av. daily cons. 10,000 gal. 80%; serv. con. 70; ord. pres. 40 to 45 lb., fire pres. 45 to 50 lb.
Rates: all meter, min. charge $1 mo. 2000 gal.

ARCHBALD, 7,194.
SYSTEM OF THE SCRANTON GAS & WATER CO. See Scranton.

ARDMORE, 3,650.
SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

ARISTES, 600.
SUPPLIED BY THE WYOMING VALLEY WATER SUPPLY CO. (Locust Mountain Division.) See Centralia.

ARNOLD, 1,818.
SUPPLIED BY NEW KENSINGTON WATER COMPANY. See New Kensington.

ASHBOURNE, 676.
SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

ASHLAND, 6,855.
MUNICIPAL.
Supt., T. W. Randenbush.....Ashland
Des. Engr., F. H. Shaw.....Lancaster
Mahanoy Creek & springs; 6 mi. from center distribution; reservoirs, 2-11,000,000 gal.; chemical, liquid chlorine.
Gravity distribution from reservoirs, above.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 54, hose con. 2½-in. Eureka; valves, r. h. thd. Darling; meters, one National; av. daily cons. 600,000 gal.; serv. con. 1225; ord. pres. 20 to 150 lb., fire pres. same.
Rates: flat, $5 year, bath $3, closet $3; meter, 6c. 1000 gal.

ASPINWALL, 2,592.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
City Engr., A. G. Shaw.....Aspinwall
Boiler, 205-hp. Erie; steam engines, 125-hp. Russell.

ATGLEN, 546.
THE ATGLEN WATER CO.
Pres., John D. Hastings.....Atglen
Sec. & Treas., W. D. Swisher..... "
Springs; 1.5 mi. from center distribution; no purification.
Gravity distribution from reservoir, 41,000 gal.
Hyd. 14, hose con. 2½-in.; valves, r. & l. h. thd. R. D. W.; meters, none; av. daily cons. 10,000 gal.; serv. con. 150; ord. pres. 40 lb., fire pres. same.

AVALON, 4,317.
SUPPLIED BY THE OHIO VALLEY WATER CO. See Bellevue.

AVIS, 796.
CHATHAM WATER CO. Supplies Woolrich.
Supt., Sec. & Treas., M. B. Rich.....Avis
Chatham River; 5 mi. from center distribution; no purification.
Gravity distribution from reservoir, 1,000,000 gal.
Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 21; hose con. 2½-in.; serv. con. 284; ord. pres. 150 lb., fire pres. same.
Rates: flat, $6 year, bath $3, closet $2.

AVOCA, 4,634.
SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

AVONDALE, 668.
THE AVONDALE WATER CO.
Pres., Treas. & Supt.,
Harvey M. Cook.....Avondale
Sec., Irving C. Cook..... "
Springs & reservoir, 5,000,000 gal.; ¼ mi. from center distribution; no purification.
Pumps, 1-216,000 gal. Deming belted to gasoline engines, 25-hp. Olds; elec. motor, 220 v. 3 ph. 60 cys. G. E.; elec. energy from Chester County Light & Power Co.; pumping direct & to reservoir, 390,000 gal.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 11, hose con. 2½-in.; valves, 8 r. & l. h. thd. Ludlow; meters, 4 Pittsburgh & Neptune; av. daily cons. 30,000 gal.; serv. con. 100; ord. pres. 35 to 52 lb., fire pres. same.

AVONMORE, 1,262.
MUNICIPAL.
Pres. Comrs., B. R. Wilson.....Avonmore
Comr., W. R. Bowman..... "
" Joseph Smeltzer..... "
Sec., V. Benninger..... "
Supt. & Engr. P'g. Sta.,
George Miles..... "
Cons. Engr., Robert Wilson.....Saltsburg
Chemist, S. G. Dixon.....Harrisburg
Wells, 6 artesian 6-in. 111 to 480 ft. deep; near center business section; reservoir, 365,000 gal.; no purification.
Air compressor, Bessemer 1909 driven by gasoline engine, 55-hp. Bessemer 1909; pumping to reservoir, 365,000 gal.
Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 25, hose con. 2½-in. Darling; valves, 29 r. h. opening; meters, 169 National, Hersey & Pittsburgh; av. daily cons. 21,000 gal.; serv. con. 200; ord. pres. 65 to 107 lb., fire pres. same.
Rates: flat, $3 quarter; meter, min. charge $12 year 24,000 gal.

BADEN, 601.
MUNICIPAL.
Vil. Pres., F. A. Barkley.....Baden
Chmn. Comrs., R. C. Furguson..... "
Sec., L. F. Northrop..... "
Des. Engr., James P. Leaf....Rochester, Pa.
Wells in bank of Ohio River, 6 tubular 8-in. 20 ft. deep; ½ mi. from center distribution; no purification.
Pumps, 1-480,000 gal. Platt belted to gas engines, 35-hp. Foos; pumping to standpipe (1906) 60,000 gal. steel.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2½-in. Rensselaer; valves, 25 r. h. thd.; av. daily cons. 24,000 gal.; serv. con. 150; ord. pres. 80 to 110 lb., fire pres. same.

BALA, 254.
SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

BANGOR, 5,669.

BANGOR WATER CO.

Pres. & Gen. Supt., Milton Flory ....Bangor
V. Pres., H. H. Wilford..... "
Treas., Oliver La Bar..... "
Sec., Harry E. Flory..... "
Supt., A. J. Nagle..... "

Springs & wells, 3 tubular 8-in. 150-ft. deep; 2 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 3-3,300,000 gal. & standpipe (1914) w. i.

Pipe, 20 mi. 4 to 12-in. w. & c. i.; hyd. 34, hose con. 2½-in. Ludlow & Rensselaer; meters, 40 Pittsburgh; av. daily cons. 800,000 gal.; serv. con. 1100; ord. pres. 25 to 150 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $4; meter, min. charge $1.25 mo.

BARNESBORO, 3,535.

MUNICIPAL.

Supt., J. W. Cove.....Barnesboro

Springs & wells, 2 tubular 10-in. 128 & 276 ft. deep; 2000 ft. from center distribution.

Pumps, 4-216,000 gal. Deming driven by elec. motors, 4 20-kw. 440 v. 3 ph. 60 cys. Westg.; elec. energy from Barnes & Tucker Co.; pumping to reservoir, 1,000,000 gal.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 37, hose con. 2½-in.; valves, 40 r. h. thd. Crane; meters, 20; av. daily cons. 30,000 gal.; serv. con. 250; ord. pres. 70 lb., fire pres. same.

Rates: meter, 35c. 1000 gal.

BATH, 1,057.

MUNICIPAL.

Chmn. Comrs., Milton Bech.....Bath
Comr., F. R. Miller..... "
" Chas. Worman..... "
Supt., S. J. Siegfried..... "

Springs & artesian wells; gravity distribution from reservoir, 8 x 50 x 200 ft.

Pipe, 2.5 mi. 4 to 12-in.; hyd. 34; valves, 34 r. h. thd.; meters, none; serv. con. 289; ord. pres. 82 lb., fire pres. same.

BEAVER FALLS, 12,191.

BEAVER VALLEY WATER CO. Supplies College Hill, Fallston, Freedom, New Brighton, North Rochester, Patterson Heights, Rochester, West Bridgewater and Economy Township.

Pres., J. F. Grimes.....Beaver Falls
V. Pres., J. P. Moore..... " "
Gen. Mgr., Sec. & Treas.,
J. T. Taylor..... " "
Cons. Engr., L. E. Chapin..... Canton, O.
Supt., H. B. Chandley.....Beaver Falls

Beaver River; settling & coagulating basins, 2-850,000 gal.; mech. filters, 8,500,-000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 5 hor. tubular 125-hp. Erie; hand stoking; pumps, 8-21,000,000 gal. Epping-Carpenter & Wilson Snyder, 1-250,000 gal. driven by gas engines, 25-hp., 1-1,000,000 gal. driven by gas engines, 50-hp.; pumping direct & to reservoirs, 4-7,000,000 gal.; elev. tanks, 2-50,000 gal.

Pipe, 90 mi. 4 to 16-in.; hyd. 410, hose con. 2½-in.; valves, 510 r. h. opening Ludlow; meters, 3000 National; av. daily cons. 6,000,000 gal.; serv. con. 6200; ord. pres. 40 to 140 lb., fire pres. same.

BEAVER SPRINGS, 550.

BEAVER SPRINGS WATER CO.

Pres. & Treas., A. Gross....Beaver Springs
Sec., Gen Mgr. & Pur. Agt.,
J. M. Baker..... " "

Springs; 3 mi. from center distribution.

Gravity distribution from reservoir, 35,-000 gal.; pipe, 3 mi. 4 to 16-in. c. i.; hyd. 10, hose con. 2½-in. Loetzer; valves, 8 r. h. opening Loetzer; meters, none; av. daily cons. 18,000 gal.; serv. con. 72; ord. pres. 60 to 72 lb., fire pres. same.

Rates: flat, $6 year, bath $2, closet $2.

BELLEFONTE, 4,145.

MUNICIPAL. Board of Water Commissioners.

Chmn., J. D. Seibert.....Bellefonte
Sec., W. T. Kelley..... "
Supt., J. P. Seibert..... "

Springs & reservoir, 300,000 gal.; ¼ mi. from center business section.

Boilers, 2 tubular 80-hp. ea. 80 lb. Atlas; hand stoking; pumps, one comp. duplex Worth., 1-1,750,000 gal. vert. triplex Deane belted to water-turbine, 80-hp., 1-72,000 gal. vert. triplex Aldrich geared to water-turbine, 8-hp.; pumping to reservoir, above.

Pipe, 7 mi. 2 to 12-in. c. i.; hyd. 55, hose con. 2½-in.; meters, 100 National; av. daily cons. 1,250,000 gal.; serv. con. 1100; ord. pres. 17 to 102 lb.

Rates: flat, $5 year, bath $3, closet $2; meter, min. charge $2 quarter 5000 gal.

BELLEVILLE, 1,000.

BELLEVILLE WATER COMPANY. Office, Lewistown.

Pres., J. P. Getter.....Belleville
V. Pres., & Sec.,
William J. Yeager.....Lewistown
Treas., Edwin Stanogle..... "

Impounding reservoir on mountain stream, 1,000,000 gal.; 3.5 mi. from center business section; gravity distribution.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 10, hose con. 4-in. Rensselaer; ord. pres. 75 lb., fire pres. 80 lb.

BELLEVUE, 6,323.

OHIO VALLEY WATER CO. Supplies Avalon, Ben Avon, Emsworth, Glenfield, McKees Rocks and West View.

Pres., H. P. Haas.....Bellevue
Sec. Treas. & Pur. Agt. D. M. Sloane "

BEN AVON, 1,828.

SUPPLIED BY THE OHIO VALLEY WATER CO. See Bellevue.

BENDERSVILLE, 355.

MUNICIPAL.

Vil. Pres., Edward Black.....Bendersville

Sec., W. W. Detter.....Bendersville
Springs; 1.5 mi. from center business section; gravity distribution; ord. pres. 180 lb.

BERWICK, 5,357.

BERWICK WATER CO. Supplies Nescopeck.
Pres., C. G. Crispin.....Berwick
V. Pres., C. C. Evans..... "
Sec. & Treas., F. S. Witman..... "
Supt., J. S. Hicks..... "
Chemist, S. B. Seely..... "

Mountain stream; settling & coagulating basins, 7,000,000 gal.; mech. filters, 1,500,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 250-hp. Vulcan; hand stoking; pumps, 2-4,500,000 gal. Worth.; pumping to reservoirs, 89,000,000 gal.

Hyd. 60, hose con. 2½-in. R. D. W.; valves, r. h. thd. Rensselaer; meters, 200 National, Pittsburgh & Worth.; av. daily cons. 3,000,000 gal.; serv. con. 2700; ord. pres. 85 lb., fire pres. same.

Rates: flat, $12 year.

BERWYN, 1,250.

SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

BETHLEHEM, 12,837.

MUNICIPAL.
Supt., H. A. Neumeyer.....Bethlehem
Artesian wells; 3000 ft. from center distribution; chemical, hypochlorite of lime.

Boiler, 125-hp.; hand stoking; pumps, 1-1,500,000 gal. centrifugal De Laval, 1-2,100,000 gal. centrifugal De Laval, 1-2,000,000 gal. Deane; air compressors, 2 steam & electric Ingersoll-Rand; elec. motors, 85 & 150 hp. 220 v. 3 ph. 60 cys. Westg.; pumping to standpipes, 2 (1891, 1914) steel.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 150, hose con. 2½-in. Darling & Snow; valves, 204 r. & l. h. thd. Crane & Darling; meters, none; av. daily cons. 1,250,000 gal.; serv. con. 2500; ord. pres. 35 to 75 lb., fire pres. same.

BIGLERVILLE, 386.

BIGLERVILLE WATER CO.
Pres., C. E. Deatrick.....Biglerville
V. Pres., F. H. Deatrick..... "
Sec., H. G. Deatrick..... "
Chemist, J. Allen Dickson..... "

Springs & wells, 3 tubular 6-in. 40 to 221-ft. deep; 2 mi. from center distribution; no purification.

Pumps, 1-86,400 gal. Myers driven by gasoline engines, 3-hp. aermotor; pumping to reservoir, 217,000 gal.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 20, hose con. R. D. W.; valves, 20 l. h. thd. Crane; meters, 3 Pittsburgh; av. daily cons. 20,000 gal.; serv. con. 114; ord. pres. 55 lb., fire pres. same.

BLACKWOOD, *600.

BLACKWOOD WATER CO.
Pres., E. B. Thomas.....Blackwood
V. Pres., L. D. Smith.....Blackwood
Sec., B. D. Baird..... "
Treas., J. M. Baxter..... "
Gen. Mgr., F. M. Chase..... "
Supt., Thos. R. Jones..... "
Cons. Engr., J. M. Humphrey... "

Black & Panther Creek; impounding reservoir, 3,200,000 gal.; ½ & 2 mi. from center distribution; no purification.

Pumps, 1-288,000 gal. Blake-Knowles; compressed air from Blackwood College; pumping to reservoirs, 2-180,000 gal.

Pipe, 1.3 mi. 4 to 12-in. w. i.; hyd. 7, hose con. 2½-in. Eddy; valves, 2 r. h. thd. Fairbanks; meters, one Thomson; av. daily cons. 180,000 gal.; serv. con. 29; ord. pres. 5 to 35 lb., fire pres. same.

BLAIR, *200.

HOME WATER SUPPLY CO. Supplies East Altoona. Office, 49 Central Trust Bldg., Altoona.
Pres., F. Woods Beekman.....Altoona
Sec. & Treas., John Cree..... "

Springs; 1.5 mi. from center distribution; no purification.

Gravity distribution from reservoir, 20 x 20 x 6 ft.; av. daily cons. 10,000 gal.; serv. con. 35; ord. pres. 50 to 100 lb., fire pres. same.

Rates: flat, $8 year.

BLAIRTON, 3,326.

SUPPLIED BY THE MONONGAHELA VALLEY WATER CO. See Glassport.

BLAKELY, 5,345.

SUPPLIED BY THE SCRANTON GAS & WATER COMPANY. See Scranton.

BLOOMSBURG, 7,413.

THE BLOOMSBURG WATER CO.
Pres., Paul E. Wirt.....Bloomsburg
Treas., C. W. Funston..... "
Sec., Frank P. Zarr..... "
Engr. P'g. Sta., Geo. C. Welliver "

Fishing Creek & wells, 28 ft. in diam. 30 ft. deep; ½ mi. from center distribution; settling & coagulating basins, 700,000 gal.; mech. filters, 3,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & lime.

Boilers, 3 return tubular 425-hp. Keeler; hand stoking; pumps, 3-9,000,000 gal. Blake-Knowles, Holly & De Laval; pumping to reservoir, 5,000,000 gal. & direct for fires.

Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Ludlow; valves, 200 r. & l. h. thd. Ludlow & Rensselaer; meters, 60 various; av. daily cons. 1,400,000 gal.; serv. con. 1600; ord. pres. 40 to 90 lb., fire pres. 80 to 100 lb.

Rates: flat, $7 year, bath $3, closet $3.

BOWERS, *200.

FLINT HILL WATER CO.
Pres., E. De Long.....Bowers
V. Pres., A. De Long..... "
Sec., Katharine Schmeger..... "

Treas., Wm. L. Seidel.....Bowers
Gen. Mgr., Henry Arndt..... "

Springs; gravity distribution from reservoirs, 15 x 30 x 10 ft.; standpipe (1879); pipe, one mi. 4-in. c. i.; hyd. 4, hose con. 3-in.; valves, 2; serv. con. 40; ord. pres. 40 lb.

Rates: flat, $5 year, bath $1, closet $1.

BOYERSTOWN, 2,433.

MUNICIPAL. Board of Water Commissioners.

Chmn., Warren S. Jones.....Boyerstown
Comr., Fred S. Koons..... "
" Warren M. Johnson.... "
Supt., M. G. Cochel..... "
Clerk, Wm. H. Fox..... "

Artesian wells, 6-in. 200 ft. deep; 3.75 mi. from center business section; gravity distribution from reservoirs, 3-477,000 gal.

Rates: flat, $2.60 6 mo., bath $1.70, closet $1.80.

BRACKENRIDGE, 3,134.

SUPPLIED BY THE ALLEGHENY VALLEY WATER CO. See Tarentum.

BRADFORD, 14,544.

MUNICIPAL.

Supt., S. D. Heffner.....Bradford

Wells, 11 artesian, 8-in. 160 ft. deep; 5 mi. from center distribution; reservoir, 3,500,000 gal.; no purification.

Pumps, 1-2,000,000 gal. Buffalo belted to gas engines, 135-hp. Bruce-Macbeth; pumping direct & to reservoir, above.

Pipe, 38 mi. 4 to 14-in. c. i.; hyd. 282, hose con. 2½-in. Ludlow & R. D. W.; valves, 500 r. h. thd. Ludlow & R. D. W.; meters, 116 Pittsburgh & National; av. daily cons. 2,000,000 gal.; serv. con. 3500; ord. pres. 85 lb., fire pres. same.

BRIDGEPORT, 3,860.

SUPPLIED BY NORRISTOWN INSURANCE & WATER CO. See Norristown.

BRISTOL, 9,256.

BRISTOL WATER CO.

Supt., A. K. Joyce.....Bristol

Delaware River; pumping.

BROCKWAYVILLE, 1,898.

BROCKWAY-CRYSTAL WATER COMPANY.

Pres., C. M. Beadle.....Brockwayville
Sec., R. W. Beadle..... "
Supt., John W. Johnson..... "

Whetstone & Rattlesnake Runs; 5 mi. from center business section; reservoir, 3,000,000 gal.; settling basin, 3000 gal.; chemicals, none.

Gravity distribution; pipe, 5 mi. 4 to 12-in. c. i.; hyd. 19, hose con. 2½-in. Darling; valves, 9 r. h. thd. Darling; serv. con. 430; ord. pres. 55 to 75 lb., fire pres. same.

BROOKVILLE, 3,000.

MUNICIPAL.

Supt., Fred D. Sayer.....Brookville
Engr. P'g. Sta., John Fawcett... "

North Fork Creek; ¾ mi. from center distribution; settling & coagulating basins, 154,000 gal.; mech. filters, 1,000,000 gal.; chemicals, sulphate of alumina.

Pumps, 4-1,000,000 gal. Goulds & Allis-A. driven by gas engines, 18-hp. Jenks, 50-hp. Springfield, 80-hp. Otto; pumping to standpipes, 4 steel.

Pipe, 9.5 mi. 4 to 12-in. c. i.; hyd. 42, hose con. 2½-in. Chapman; meters, 33 Pittsburgh; av. daily cons. 350,000 gal.; serv. con. 600; ord. pres. 50 to 160 lb., fire pres. same.

Rates: flat, min. $12 year; meters, 50c. 1000 gal. max., 8c. min.

BRYN MAWR, 2,100.

SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

BUCK HILL FALLS, *1,200.

BUCK HILL WATER CO.

Pres., Henry T. Paste.....Buck Hill Falls
Sec. & Treas., Chas T. Jenkins " " "
Gen. Mgr.,
Chas. N. Thompson..... " " "
Supt., Harvey R. Springer.. " " "

Buck Hill Creek; 2½ mi. from center distribution; chemical, hypochlorite of lime.

Gravity distribution from reservoir, 50,000 gal.; av. daily cons. 150,000 gal.; serv. con. 150; ord. pres. 10 to 100 lb., fire pres. same.

BURNESVILLE, 300.

SUPPLIED BY THE WYOMING VALLEY WATER SUPPLY CO. (Locust Mountain division.)

BUTLER, 20,728.

THE BUTLER WATER COMPANY. (Controlled by American Waterworks & Elec. Company, 50 Broad St., New York, N. Y.)

Pres., A. M. Lynn.....New York
V. Pres., B. M. Watt..... " "
Sec., M. F. Riley..... " "
Treas., W. D. Freer..... " "
Supt., C. H. Kelly.....Butler
Ch. Engr., C. W. Biggs, Jr.....New York
Engr. P'g. Sta., F. C. Eagle.....Butler
Chemist, W. Donaldson.....New York

Thorns Run & Connoquenessing Creek; near center business section; impounding reservoirs, 300,745,000 gal.; settling tank, 50 ft. in diam. 20 ft. deep; mech. filters, 5,000,000 gal.; chemicals, sulphate of alumina & lime.

Boilers, 2 water-tube 405-hp. Heine & Gary; natural gas fuel; pu nps, 6-17,500,000 gal. Worth. & Scranton; pumping to reservoir, 2,000,000 gal. & direct.

Pipe, 25 mi. 4 to 16-in. c. i.; hyd. 196, hose con. 2½-in. Ludlow; valves, Ludlow; meters, 3035 Neptune, National, Worth. & Pittsburgh; av. daily cons. 3,000,000 gal.; serv. con. 3574; ord. pres. 80 to 90 lb., fire pres. same.

CAMBRIDGE SPRINGS, 1,514.

MUNICIPAL.

Supt., H. B. Richardson, Cambridge Springs
Chemist, R. E. Lee.....Meadville

Venange River; reservoir, 20,000 gal.; settling basin, one; mech. filters, 2-500,000 gal. ea. Pittsburgh.

Boiler, marine 125-hp. 100 lb. Penna. 1909; pumps, 2-350,000 gal. triplex Rumsey 1898 & 1909; steam engines, 75-hp. Skinner 1909; elec. motor, 30-hp. 3 ph. 60 cys. Westg. 1908; pumping direct & to standpipe (1898) 117,000 gal.

Hyd. 56, hose con. 3-in. Ludlow; meters, 440 Neptune, Hersey & Union; serv. con. 440; ord. pres. 80 to 90 lb., fire pres. same.

Rates: meter, min. charge $1.50 quarter 6000 gal.

CANTON, 1,637.

CITIZENS WATER CO. OF CANTON, PA.

Pres., W. D. Crocker.....Williamsport
Sec., W. C. Sechrist.....Canton
Treas., J. O. Whitman..... "
Supt., Lee Brooks..... "
Cons. Engr., H. W. Taylor...Albany, N. Y.
Chemist, F. E. Weddigen.....Williamsport

Lake Nepahwin & springs; 1.5 mi. from center distribution; chemical, hypochlorite of lime.

Gravity distribution from reservoirs, 2-200,000 gal.

Pipe, 8 mi. 3 to 12-in. c. i.; hyd. 35, hose con. 3½-in.; valves, 100 r. & l. h. thd.; meter, 15 Pittsburgh, Neptune & Thomson; av. daily cons. 450,000 gal. 75%; serv. con. 600; ord. pres. 30 to 60 lb., fire pres. 60 to 80 lb.

Rates: flat, $6 quarter, bath $3, closet $2.50; meter, 30c. 1000 gal. max., 7c. min.

CARBONDALE, 17,040.

SUPPLIED BY THE SCRANTON GAS & WATER COMPANY. See Scranton.

CARLISLE, 10,303.

CARLISLE GAS & WATER CO.

Pres. & Mgr., John Hays.....Carlisle
Sec. & Treas., J. I. Tritt..... "
Supt. & Pur. Agt., C. Fuller..... "

Conodoguinet Creek; pumping.

CARNEGIE, 10,009.

SUPPLIED BY THE SOUTH PITTSBURGH WATER CO. See South Pittsburgh.

CASHTOWN, 300.

CASHTOWN WATER CO.

Pres., Geo. W. Schwartz.....Cashtown
Sec., D. A. Mickny..... "
Treas. & Mgr.,
John D. Neuitzelman..... "

Springs; ½ mi. from center distribution; gravity distribution; serv. con. 30.

Rates: flat, $5 year, bath 50c. closet 50c.

CENTRALIA, *2,900.

WYOMING VALLEY WATER SUPPLY CO. Locust Mountain Division. (Office Wilkes-Barre.) Also supplies Aristes & Wilburton.

Pres., E. V. Thomas .....Wilkes-Barre
V. Pres., L. D. Smith..... " "
Sec., C. G. Baird..... " "
Treas., J. M. Baxter..... " "
Gen. Mgr., F. M. Chase..... " "
Supt., H. J. Heffner..... " "
Des. Engr., J. M. Humphrey... " "

South branch of Roaring Creek & wells, 2 tubular 6 & 8-in. 118 & 130 ft. deep; ¾ mi. from center business section; impounding reservoir, 31,900,000 gal.; no purification.

Boilers, 2 return tubular 600-hp. Levan; hand stoking; pumps, 2-18,000,000 gal. Worth.; elec. motors, 200-hp. 2100 v. 3 ph. 25 cys. Aldrich; elec. energy from Centralia Power Plant; pumping to reservoirs, 2,200,000 gal. & standpipe.

Pipe, 13 mi. 4 to 30-in. c. i. & w. i.; hyd. 14, hose con. 2½-in.; valves, 34 r. & l. h. thd. various; meters, 32 National, Pittsburgh & Thomson; av. daily cons. 850,000 gal.; serv. con. 512; ord. pres. 15 to 200 lb., fire pres. same.

CHAMBERSBURG, 11,800.

MUNICIPAL.

Supt., F. R. McGrath.....Chambersburg

Birch Run; 11 mi. from center distribution.

Gravity distribution from reservoirs, 3-5,000,000 gal.; pipe, 22.36 mi. 4 to 12-in. c. i.; hyd. 146, hose con. 2½-in.; valves, 185 r. h. thd. R. D. W.; meters, 604 various; av. daily cons. 2,500,000 gal.; serv. con. 3609; ord. pres. 40 to 90 lb., fire pres. same.

Rates: flat, $3 year, bath $5, closet $1; meters, 12½c. 1000 gal. max., 3¼c. min.

CHARLEROI, 9,615.

TRI-CITIES WATER CO. Office, 514 Smithfield St., Pittsburgh, Pa.

Gen. Mgr., H. E. Pollock.....Pittsburgh
Pres., T. A. Mellon..... "
Cons. Engrs., Chester & Fleming,
Union Bk. Bldg., Pittsburgh
Supt., W. W. Darby.....Charleroi
Chemist, C. C. Humphreys..... "

Monongahela River & well, 20 ft. in diam. 50 ft. deep; near center distribution; settling & coagulating basins, 375,000 gal.; mech. filters, 10-500,000 gal. ea.; chemicals. lime, sulphate of alumina, soda ash & iron sulphate.

Boilers, 3 150 & 350-hp. McNaull; hand stoking; pumps, 5-16,500,000 gal. Epping-Carpenter, F. M. & Wilson-Snyder; pumping direct & to reservoir, 8,000,000 gal.

Pipe, 14.6 mi. 4 to 30-in. c. i.; hyd. 81; meter, 1577; av. daily cons. 800,000 gal.; serv. con. 1870; ord. pres. 25 to 140 lb., fire pres. same.

CHERRYVILLE, 1,153.

MUNICIPAL.

Chmn. Comrs., D. R. Mauney..Cherryville
Comr., W. H. Hendricks..... "
Comr., M. L. Craft..... "
Secy., W. J. Allran..... "
Supt., C. P. Whitehead..... "

Wells, 3 tubular 6-in. 175 to 180-ft. deep; 1¼ mi. from center business section; reservoir, 100,000 gal.

Pumps, 1-60,000 gal. triplex Buffalo 1914 belt driven elec. motor, 15-hp. 220 v. 3 ph. 60 cys. Westg. 1914, 1-300,000 gal. hor. centrifugal Buffalo 1914 d. con. to elec. motor, 75-hp. 2080 v. 3 ph. 60 cys. Western 1914; elec. energy from Southern Power Co. pumping direct to elev. tank (1914) 100,000 gal. iron, Des Moines Bridge & Iron Co.

Pipe, 5 mi. 6 to 10-in. c. i.; hyd. 41, hose con. 2 to 3-in. Columbian; valves, 55 l. h. opening Columbia; meters, 36 Pittsburgh; av. daily cons. 2000 gal. 75%; serv. con. 36; ord. pres. 48 to 52 lbs., fire pres. 80 to 100 lbs.

Rates: meter, min. charge 50c. mo. 2,000 gal., 25c. 1000 gal. max., 11c. min.

CHESTER, 38,537.

THE NEW CHESTER WATER CO. Supplies Linwood & Upland. Office, 26 So. 3rd. St., Philadelphia, Pa.

Pres., J. L. Forwood.....Chester
V. Pres., J. C. Lippincott.....Philadelphia
Treas., H. L. Hopper..... "
Sec., Gen. Mgr. & Des. Engr.,
A. W. MacCallum ..... "
Supt., W. B. Chadwick..... "
Chemist, Dr. Wm. Wood..... "

Delaware River & well, 50 ft. in diam. 34 ft. deep; near center distribution; reservoir, 3,000,000 gal.; mech. filters, 1-8,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 water-tube 300-hp. Heine, 5 tubular 80-hp. Chester; hand stoking; pumps, 3-18,000,000 gal. Snow & 2 Holly; pumping to reservoir, 2-15,000,000 gal.

Pipe, 95.5 mi. 4 to over 30-in. c. i.; hyd. 280, hose con. 2½-in. Ludlow & R. D. W.; valves, 950 r. h. thd. Ludlow; meters, 2200 National, Hersey & Neptune; av. daily cons. 4,010,000 gal.; serv. con. 10,902; ord. pres. 65 to 75 lb., fire pres. same.

CHESWICK, 317.

SUPPLIED BY THE ALLEGHENY VALLEY WATER CO. See Tarentum.

CHRISTIANA, 934.

CHRISTIANA GRAVITY WATER CO.

Pres., Dr. O. H. Paxson.....Christiana
Sec., Samuel Carter..... "
Treas., E. G. Broomell..... "
Supt., Brinton Walter..... "
Des. Engr., Harry N. Herr..Lancaster, Pa.
Chemist, Prof. J. E. Goodell.Christiana

Springs; 2 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 2-160,000 gal.; av. daily cons. 130,000 gal.; serv. con. 204; ord. pres. 70 to 80 lb., fire pres. same.

CLAIRTON, 3,326.

SUPPLIED BY THE MONONGAHELA VALLEY WATER CO. See Glassport.

CLARKS SUMMIT, 750.

CLARKS SUMMIT WATER CO.

Pres. & Treas.,
Geo. W. Beemer.....Clarks Summit
Supt., J. H. Ackerson..... " "

Wells, 2 tubular 8-in. 250-ft. deep; reservoir, 90,000 gal.

Boiler, tubular 60-hp. Oswego; hand stoking; pumps, 2-240,000 gal.; pumping direct.

Pipe, 7 mi. 4 to 6-in. c. i.; hyd. 6, hose con. 3-in.; valves, r. h. thd.; meters, 15; av. daily cons. 100,000 gal.; serv. con. 330; ord. pres. 30 to 107 lb., fire pres. same.

CLAYSVILLE, 1,045.

MUNICIPAL.

Comr., J. W. Plants.....Claysville
" H. A. Miller..... "
" Alex. Welson..... "
Vil. Clerk, J. L. Melvin..... "
Supt. & Engr. P'g. Sta.,
F. A. Burwell..... "
Cons. Engrs.,
Chaney & Armstrong.....Washington

Springs; ¾ mi. from center distribution; settling basin, 30-ft. in diam. 20-ft. deep.

Pumps, one driven by gas engines, 20-hp. Bessemer; pumping to standpipe, 2 (8195, 1910) steel.

Pipe, 2.5 mi. 4 to 12-in. w. i.; hyd. 30, hose con. 2½-in. Boston; meters, 100 Pittsburgh; av. daily cons. 3300 gal.; serv. con. 100; ord. pres. 150 lb.

Rates: meter, min. charge $1.50 quarter, 1700 gal., 85c. 1000 gal., 60c. min.

CLEARFIELD, 6,851.

CLEARFIELD WATER CO.

Pres., H. F. Bigler.....Clearfield
V. Pres., A. W. Lee..... "
Supt., J. B. Nevling..... "

Impounding reservoirs on Montgomery Creek, 2-68,000,000 gal.; 4 mi. from center distribution; no purification.

Gravity distribution from reservoir, 2,000,000 gal.

Pipe, 35 mi. 4 to 30-in. c. i.; hyd. 100, hose con. 2½-in. R. D. W.; valves, 225 r. h. opening Eddy; meters, 100 National; av. daily cons. 1,500,000 gal.; serv. con. 1900; ord. pres. 65 to 85 lb., fire pres. same.

Rates: meter, 20c. 1000 gal. max., 4c. min.

CLIFTON HEIGHTS, 3,155.

SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

CHELTENHAM, 500.

SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

COALDALE, 5,154.

SUPPLIED BY THE PANTHER VALLEY WATER CO. See Lansford.

COALPORT, 876.

MUNICIPAL.

Chmn. Comrs., H. H. Stull.....Coalport
Comr., Geo. Bathgate..... "

Comr., S. H. Spangle.....Coalport
Sec., P. C. Gates..... "

Wells, 3 tubular 6-in. 30 & 120-ft. deep; no purification.

Boiler, 40-hp. Keeler; pumps, one Yough; pumping to elev. tank, 74,900 gal. wood.

Pipe, 1.5 mi. 4 to 12-in. c. i.; hyd. 21, hose con. 2½-in. R. D. W.; valves, r. h. thd.; meters, 4 National; av. daily cons. 50,000 gal.; serv. con. 56; ord. pres. 83 lb., fire pres. same.

Rates: flat, 50c. mo.; meter, 12c. 1000 gal. max., 7c. min.

COAL TOWNSHIP.

BEAR GAP WATER COMPANY. Office 204 E Sunbury St., Shamokin.
Pres., C. Q. McWilliams.....Shamokin
V. Pres., W. C. McConnell..... "
Sec., B. W. Haupt..... "
Engr. P'g. Sta., Wm. G. Price....Bear Gap

Mountain springs & impounding reservoir, 3,000,000 gal.

Boilers, 2 102-hp. ea. 130 lb. B. & W. 1891, 2 102-hp. ea. 130 lb. B. & W. 1902; hand stoking; pumps, 1-1,400,000 gal. hor. comp. Worth. 1891, 1-1,400,000 gal. hor. comp. Worth. 1893, 1-2,250,000 gal. hor. comp. c. & f. wh. Wetherill 1910; pumping to reservoir, 1,125,000 gal.

Pipe, 16.8 mi. 4 to 16-in. c. i.; valves, 58 r. h. opening Ludlow & Darling; meters, 33 Hersey & National; av. daily cons. 1,540,000 gal.; serv. con. 33; ord. pres. 50 to 150 lb., fire pres. same.

Rates: all meter, min. charge $1 mo., 25c. 1000 gal. max., 10c. min.

COATESVILLE, 11,084.

MUNICIPAL.
Supt., J. G. Pugh.....Coatesville
Cons. Engr., Alex. Potter.....New York
Engr. P'g. Sta., Lewis Burke....Coatesville

Sucker Run; ½ mi. from center business section; settling and coagulating basins, 900,000 gal.; mechanical filters, 1,000,000 gal.; chemical, sulphate of alumina and hypochlorite of lime.

Pump driven by gasoline engines, 2 30-hp. ea. National & Olds; elec. motor, 115 v. 3 ph. 60 cys. Westg.

Pipe, 9 mi. 4 to 16-in. c. i.; hyd. 152, hose con., 2½-in. Eddy; valves, 241 r. h. opening Eddy; meters, 37 Nat'l. & Gamon; av. daily cons. 150,000 gal.; serv. con. 1600; ord. pres. 60 to 65 lb., fire pres. same.

Rates: meters, 8c. 1000 gal.

COBURN, 450.

CITIZENS WATER CO.
Pres., P. H. Meyer.....Coburn
Treas., Dan Meyer..... "
Sec., W. E. Braucht..... "

Springs; ¼ mi. from center distribution; no purification.

Gravity distribution from reservoir, 30,000 gal.; serv. con. 22; ord. pres. 35 lb.

COBURN WATER CO.
Pres., W. J. Harter.....Coburn
Sec. & Treas., A. B. Meyer.....Coburn

Stillhouse Run; one mi. from center distribution; no purification.

Gravity distribution from reservoir, 5,000 gal.; hyd. 9; av. daily cons. 2000 gal.; serv. con. 35; ord. pres. 300 lb., fire pres. 300 lb.

COLLEGEVILLE, 61.

COLLEGEVILLE WATER WORKS. (Privately owned.)
Pres. & Supt., Horace L.Saylor, Collegeville

Artesian well, 6-in. 135-ft. deep; near center business section; pump driven by gasoline engine, Perkins, 1910; pumping to elev. tank (1910) 3500 gal.

Pipes, one mi. 1½ to 2-in. galv. i.

Flat, $15 year.

COLLINGDALE, 1,361.

SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

COLUMBIA, 11,454.

COLUMBIA WATER CO.
Supt., Albert Myers.....Columbia

Susquehanna River; gravity distribution.

COLWYN, 1,584.

SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

CONFLUENCE, 890.

CITIZENS WATER CO.
Pres., Treas. & Mgr.,
C. W. Kurtz.....Confluence
V. Pres., Chas. Marquart..... "
Sec., Fred Marquart..... "

Drake Run; 3.5 mi. from center distribution.

Gravity distribution from reservoir, 1,500,000 gal.; pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 17, hose con. 2½ in. Ludlow; meters, 35 Pittsburgh & National; av. daily cons. 350,000 gal.; serv. con. 172; ord. pres. 30 to 60 lb., fire pres. 30 to 180 lb.

Rates: flat, $6 year, bath,$3, closet $3; meter, 25c. 1000 gal. max., 6c. min.

CONNEAUT LAKE, 725.

MUNICIPAL.
Vil. Pres.,
Wilson McCright.....Conneaut Lake
Clerk & Supt., Hyler Scott. " "

Well, 3 artesian 4-in. 45-ft. deep; reservoir, 37,500 gal.; no purification.

Pump, 1-12,500 gal. vert. c. & f. wh. 1908; power furnished by Conneaut Lake Roller Mills; pumping to elev. tank, 25,000 gal. wood.

Pipe, 2 mi. 6-in. c. i.; hyd. 20, hose con. 2½-in.; av. daily cons. 50,000 gal.; serv. con. 65; ord. pres. 50 lb., fire pres. 100 lb.

Rates: flat, $5 year, bath $2.50, closet $2; meter, min. charge $5 year, 30c. 1000 gal.

CONNELLSVILLE, 12,845.

CONNELLSVILLE WATER CO. (Controlled by the American Water Works & Electric Co., 15 Broad St. New York.)

Pres., A. M. Lynn.....New York, N. Y.
V. Pres., D. M. Watt..... " " "
Sec., M. F. Riley..... " " "
Treas., W. D. Freer..... " " "
Supt., R. V. Little.....Connellsville
Chief Engr.,
G.W. Biggs, Jr.....New York, N. Y.
Chemist, W. Donaldson.. " " "

Impounding reservoir, 2-200,000 gal.; 2 mi. center business section; settling tank, 50-ft. diam. x 20-ft. high; mechanical filters, 2,000,000 gal.; chemical, sulphate of alumina, chlorine and lime.

Boilers, 3 hor. tubular 220-hp. McNeil & McEwen; hand stoking; pumps, 4-11,500,-000 gal. Epping-Carpenter, Worth. & Platt; pumping direct.

Pipe, 23 mi. 4 to 16-in. c. i.; hyd. 124 hose con. 2½-in. Ludlow; valves, Ludlow; meters, 547 Neptune & Nat'l.; av. daily cons. 1,750,000 gal.; serv. con. 3019; ord. pres. 125 to 150 lb., fire pres. same.

CONSHOHOCKEN, 7,480.

SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

CORAOPOLIS, 5,252.

MUNICIPAL.
Chmn. Comr., W. E. Langham..Coraopolis
Comr., James Corroll..... "
Sec., W. E. Cain..... "
Gen. Mgr. & Pur. Agt.,
Geo. W. Scott..... "

Ohio River & well, 10-in. 34-ft. deep; ½ mi. from center business section.

Boilers, 2 return tubular, 100-hp. ea. 90 lb. Erie; gas fuel; pumps, 1-1,000,000 gal. vert. comp. d. act. Hall, 1-1,500,000 gal. vert. tri. exp. 1911 geared to gas engine, 150-hp. Struther-Wells 1911, 1-360,000 gal. hor. centrifugal d. con. to elec. motor, 10-hp. 220 v. 3 ph. 60 cys. Wagner; pumping to elev. tank, 2-625,000 gal.

Hyd. 38, hose con. 3-in.; meters, 190, Buffalo, Pittsburgh & Neptune; av. daily cons. 800,000 gal. serv. con. 1200; ord. pres. 75 to 100 lb., fire pres. same.

Rates: flat, $5 year, bath $3, closet $3; meters, min. charge $1.25, quarter 30c. 1000 gal.

CORRY, 5,591.

THE CORRY WATER SUPPLY CO.
Pres. & Treas., Issac B. Brown.....Corry
V. Pres., Supt., & Sec., R. W. Brown.. "
Engr. P'g. Sta., J. Ruppusburger..... "

Wells, 48 tubular 4 to 8-in. 50 to 175 ft. deep; 1.75 mi. from center distribution; no purification.

Boilers, 2 locomotive 150-hp. Union; hand stoking; pumps, 1-1,000,000 gal. Holly, 1-2,000,000 gal. L-D-G.; pumping direct & reservoir, 4,000,000 gal.

Pipe, 30 mi. ; av. daily cons. 850,000 gal.; serv. con. 1500; ord. pres. 80 to 135 lb., fire pres. same.

CRAFTON, 4,583.

SUPPLIED BY SOUTH PITTSBURGH WATER CO. See South Pittsburgh.

CREIGHTON, 796.

SUPPLIED BY THE ALLEGHENY VALLEY WATER CO. See Tarentum.

CREEKSIDE, 563.

CREEKSIDE WATER CO.
Pres., Geo. Nesbitt.....Indiana, Pa.
Sec., James W. Mack..... " "
Mgr., J. L. Orr..... " "

Springs; 1000-ft. from center distribution; av. daily cons. 8000 gal.; serv. con. 85; ord. pres. 90 lb.

CURWENSVILLE, 2,549.

CURWENSVILLE WATER CO. Office, Millersburg, Pa.
Pres., T. F. Bradenbaugh.....Millersburg
Sec. & Treas.,
H. G. Frederick..... "
Supt., Geo. L. Benner.....Curwensville

Mountain streams & springs; 2 mi. from center distribution; no purification.

Boiler, locomotive 100-hp. Erie; hand stoking; pumps, 1-500,000 gal. steam Worth., 1-1,000,000 gal. centrifugal De Laval driven by elec. motor, 100-hp. 2300 v. 3 ph. 60 cys. G. E.; elec. energy from Penn. Public Service Co.; pumping direct & to reservoir, 800,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. R. D. W., Loetzer & Rensselaer; valves, 75 various; meters, 25 various; av. daily cons. 250,000 gal.; serv. con. 600; ord. pres. 55 to 110 lb., fire pres. same.

CYNWID, 325.

SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER SUPPLY CO. See Philadelphia.

DALLAS, 1,100.

DALLAS WATER CO.
Pres., John B. Reynolds.....Kingston
Secy. Treas. & Gen'l. Mgr.,
John J. Ryman.....Dallas

Springs; gravity distributoin.

Pipes, 3 mi. 3 to 6-in. c. i.; hyd. 1, hose con. 2½-in.; valves, 26, r. & l. h. opening; meters, none.

DALTON, 767.

NORTH ABINGTON WATER CO. Office, Dalton Locks.
Pres., J. A. Ritter.....Dalton
Sec. Treas. Gen. Mgr., & Pur. Agt.,
F. M. Francis..... "
Cons. Engr., H. W. Dean..... "

Wells 3 artesian 8 and 10-in. 400 and 420-ft. deep; ¾ mi. from center business section; no purification.

Pump, 1-36,000 gal. vert. Keystone 1910 geared to elec. motor, 15-hp. 220 v. 3 ph. 60 cys. Westg. 1910, 1-60,000 gal. vert. Keystone 1914 geared to elec. motor, 15-hp. 220 v., 3 ph. 60 cys. Westg. 1914; elec.

energy from Abington Elec. Co.; pumping to reservoir, 300,000 gal.

Pipes, 3 mi. 4 to 10-in. c. i.; hyd. 18, hose con. 2½-in. R. D. W.; valves, 10 l. h. opening R. D. W.; meters, 100 Buffalo; av. daily cons. 25,000 gal. 90%; serv. con. 125, ord. pres. 20 to 100 lb., fire pres., 60 to 100 lb.

Rates: flat, $10 year, bath, $4, closet, $4; meter, min. charge $10 year 25,000 gal. 50c. 1000 gal.

DARBY, 6,305.

SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

DAWSON, 848.

MUNICIPAL.

Supt., Cyrus Whipkey.....Dawson
Sec., S. J. Morningstar..... "
Cons. Engr., E. J. Taylor..Pittsburgh, Pa.

Wells, 2 tubular 6-in. 95 ft. decp; ½ mi. from center distribution.

Pumps driven by elec. motors, 2 5-hp. 110 v. s. ph. 60 cys. Century & Wagner; elec. energy from West Penn. Electric Co.; pumping to reservoir, 500,000 gal.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 23, hose con. 2½-in. Ludlow; valves, 11 Kennedy; meters, 110 Pittsburgh; av. daily cons. 10,000 gal.; serv. con. 110; ord. pres. 55 to 130 lb., fire pres. same.

DELANO, 1,000.

DELANO WATER CO. Operated by the Wyoming Valley Water Supply Co. Office, Wilkes-Barre.

Pres., E. B. Thomas.....Wilkes-Barre
V. Pres., L. D. Smith..... "
Sec., D. G. Baird..... "
Treas., J. M. Baxter..... "
Gen. Mgr., F. M. Chase..... "
Supt., Thomas R. Jones.....Delano
Des. Engr.,
J. M. Humphrey.....Wilkes-Barre

Springs and wells, 3 tubular 8 & 10-in. 350 to 722-ft. deep; impounding reservoirs, 449,694,000 gal.; no purification.

Pipes, 6 mi. 4 to 12-in. c. i.; hyd. 19, hose con. 2½ and 3-in. valves, 35, r. and l. h. thd.; meters, 10, Pittsburgh & Thomson; av. daily cons. 600,000 gal.; serv. con. 568; ord. pres. 22 to 150 lb., fire pres. same.

DERRY, 2,954.

SUPPLIED BY THE WESTMORELAND WATER CO. See Greensburg.

DEVON, 500.

Supplied by Springfield Consolidated Water Supply Co. See Philadelphia.

DICKSON, 9,331.

Supplied by the Scranton Gas & Water Company. See Scranton.

DONORA, 8,174.

TRI-CITIES WATER CO. Office, 514 Smithfield St., Pittsburgh, Pa.

Pres., T. A. Mellon.....Pittsburgh
Gen. Mgr., H. E. Pollock..... "
Audr., E. P. McNaughton..... "
Cons. Engrs., Chester & Fleming, Union Bk. Bldg., Pittsburgh
Supt., W. W. Darby..... "
Chemist, C. C. Humphries..... "

For details of supply and pumping equipment, see Charleroi.

Pipe, 11.8 mi. 4 to 30-in. c. i; hyd. 68; meters, 107; av. daily cons. 450,000 gal.; serv. con. 1070; ord. pres. 75 to 115 lb., fire pres. same.

DORRANCETOWN, 4,046.

Supplied by the Spring Brook Water Supply Co. See Wilkes-Barre.

DOYLESTOWN, 3,304.

MUNICIPAL.

Chmn. Comrs., J. P. Weiss.....Doylestown
Comr., Dr. James E. Groff..... "
" Geo. C. Hill..... "
Supt., Theodore Holcombe..... "
Engr., P'g. Sta., William Hudson "

Springs & wells, 3 artesian 8-in. 160 to 650 ft. deep; ¾ mi. from center distribution; no purification.

Boilers, 3 70 & 100-hp. Petty; hand stoking; pumps, 1-1,000,000 gal. Holly, 1-500,000 gal. Worth.; pumping to standpipe (1911) iron.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 90 Thompson & R. D. W.; valves, 225 mostly r. h. thd.; meters, 30 various; av. daily cons. 300,000 gal.; serv. con. 650.

Rates; flat, $6 year, bath $3, closet $4.

DRAVOSBURG, 1,895.

Supplied by the Monongahela Valley Water Co. See Glassport.

DU BOIS, 12,623.

MUNICIPAL.

Supt., James C. Lord.....DuBois
City Clerk, J. C. Weaver..... "

Impounding reservoir on Anderson Creek & Montgomery Run, 86,000,000 gal.; 7.5 mi. from center distribution; no purification.

Gravity distribution from reservoirs, above Hyd. 180, hose con. 2½-in. Holly & Rensselaer; valves, 240 l. h. thd. Rensselaer; meters, 2400 Pittsburgh & Thomson; av. daily cons. 1,000,000 gal.; serv. con. 2500; ord. pres. 80 to 95 lb.

Rates; meter, 25c. 1000 gal.

DUBOISTOWN, 682.

Supplied by the Williamsport Water Company. See Williamsport.

DUNCANNON, 1,474.

THE TROUT RUN WATER COMPANY.

Pres. & Treas., P. F. Duncan...Duncannon
Sec., B. S. Duncan..... "

Mountain spring; 1.4 mi. from center distribution.

Gravity distribution from reservoir, 750,000 gal.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 30; valves, 10; meters, 100; serv. con. 400; ord. pres. 70 lb., fire pres. 80 lb.

DUNMORE, 17,615.

Supplied by the Scranton Gas & Water Company. See Scranton.

DU QUESNE, 15,727.
MUNICIPAL.
Supt., E. Forrest Williams.....Du Quesne
Con. Engr., J. Rich Kommers... " "
Engrs. P'g. Sta.,
Chas. Zimmerman..... " "
Jno. Witherspoon..... " "
Wells, 21 artesian 12-in. 70 ft. deep; one mi. from center distribution.
Boilers, 2 150-hp. Erie; hand & mech. stoking, Kelly; pumps, 2-1,500,000 gal. Worth.; pumping to standpipe (1896) 500,000 gal. w. i.
Pipe, 21 mi. 4 to 14-in. d. i.; hyd. 138, hose con. 2½-in. R. D. W., Ludlow, Pittsburgh & Rensselaer; valves, 250 r. h. thd. Rensselaer; meters, 1750 Pittsburgh & National; av. daily cons. 8,000,000 gal.; serv. con. 1700; ord. pres. 20 to 185 lb., fire pres. same.
Rates; meter, 20c. 1000 gal. max., 15c. min.

DUSHORE, 813.
THE DUSHORE WATER CO. Office, 121½ N. Franklin St., Allentown, Pa.
Pres., R. J. Hougen.....Weissport
Sec., Asher A. Yeakel.....Allentown
Wells, 2 artesian 6-in. 200 ft. deep; 3 mi. center business section; gasoline engine; gravity distribution from reservoir, 2,000,000 gal.
Rates; flat, $10 year.

EAGLES MERE, 3,000.
EAGLES MERE WATER CO.
Pres., Wm. Emery.....Eagles Mere
V. Pres., John R. T. Ryan..... " "
Sec., Teas. & Supt., E. S. Chase " "
Eagles Mere Lake; near center distribution; mech. filters, 220,000 gal.
Pumps, 2-408,000 gal. Goulds belted to gasoline engines, 30-hp. Springfield & elec. motor, 400 v. 2 ph. Westg.; elec. energy from Eagles Mere Light Co.; pumping direct & to standpipe (1904) 100,000 gal. steel.
Pipe, 3 mi. 2 to 8-in. c. i.; hyd. 15, hose con. 2½-in. Loetzer; valves, 14 l. h. thd. Loetzer; meters, 6 Thompson; serv. con. 121; ord. pres. 70 to 80 lb., fire pres. 135 to 200 lb.
Rates; meter, 42½c. 1000 gal.

EAST BANGOR, 1,186.
MUNICIPAL.
Chmn. Comrs., James Masters.East Bangor
Comr., Thomas Parsons..... " "
" Joseph A. Long..... " "
Supt., R. A. Felmel..... " "
Des. Engr., H. C. Dilliard..... " "
Springs & wells, 10-in. 135 ft. deep; 1.7 mi. from center distribution; no purification.
Gravity distribution from reservoir; pipe, 5.3 mi. 4 to 12-in. c. i.; hyd. 18; hose con. 2½-in.; av. daily cons. 400,000 gal.; serv. con. 160; ord. pres. 59 to 145 lb., fire pres. 70 to 160 lb.

EASTON, 28,523.
LEHIGH WATER CO. Supplies Phillipsburg, N. J.
Pres., J. M. Wilson.....Easton
Treas., P. H. Ludlow..... "
Sec., D. E. Steckel..... "
Supt., R. B. Radere..... "
Delaware river; filters 33 x 100 ft.; chemical, hypochlorite of lime; pumping to reservoir.

EAST PITTSBURGH, 5,615.
Supplied by the Pennsylvania Water Company. See Wilkinsburg.

EBENSBURG, 1,978.
MUNICIPAL.
Pres., F. H. Barker.....Ebensburg
Supt. & Engr. P'g. Sta.,
D. H. Jones..... "
Springs & wells, 2 tubular 8 & 12-in. 150 ft. deep; 1.5 mi. from center business section; reservoir, 75,000 gal.; no purification.
Boilers, 125-hp. 100 lb. Erie 1906; hand stoking; pumps, 1-432,000 gal. hor. simple d. act. Worth. 1887, 1-792,000 gal. hor. comp. d. act. Worth. 1907; air compressors, 2 Ingersoll-Rand 1908–1914 steam driven; pumping to reservoir, 2-627,450 gal.
Pipes, 5.7 mi. 4 to 8-in. c. i.; hyd. 52, hose con. 2½-in. R. D. W.; valves, 40; meters. 34 Pittsburgh; av. daily cons. 160,000 gal,; serv. con. 527; ord. pres. 12 to 65 lb.
Rates; flat, $5 yr., bath $3, closet $3; meters, 25c. 1000 gal.

EDDYSTON, 1,167.
Supplied by the Springfield Consolidated Water Co. See Philadelphia.

EDGEWOOD, 2,596.
Supplied by the Pennsylvania Water Company. See Wilkinsburg.

EDGEWORTH, 1,229.
EDGEWORTH WATER CO. Office, Union Bk. Bldg., Pittsburgh, Pa.
Pres., J. N. Chester.....Pittsburgh
V. Pres., John C. Slack..... "
Sec. & Treas.,
Thos. Fleming, Jr..... "
Supt., P. H. Tatsch..... "
Wells, 4 tubular 10 & 12 in. 25 & 30 ft. deep; one mi. from center distribution.
Pumps, 1-500,000 gal. Deming, 1-1,240,000 gal. Platt, 1-300,000 gal. Deming driven by gas engines, 2 50 & 125-hp. Westg.; pumping direct & to reservoir, 2-650,000 gal.
Pipe, 12.3 mi. 4 to 12-in. c. i.; hyd. 64, hose con. 2½-in. Ludlow; valves, 56 Ludlow; meters, 692 various; av. daily cons. 170,000 gal.; serv. con. 687; ord. pres. 80 to 117 lb., fire pres. same.

EDINBORO, 354.
MUNICIPAL.
Comr., Frank Harrison.....Edinboro
" Dr. H. O. Gibson..... "
Supt., J. E. Smith..... "
Engr. P'g. Sta., J. A .Reynolds.... "
Chemist, J. S. Dunwoody..... "

Well, 18 ft. in diam. 15 ft. deep; near center distribution.

Pumps, 2-288,000 gal. Olin driven by gasoline engine, 18-hp. Olin; pumping to standpipe (1911) steel.

Hyd. 35, hose con. 4-in.; valves, 12 r. h. thd.; meters, 15 Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 150; ord. pres. 75 lb., fire pres. same.

Rates; meter, 30c. 1000 gal.

EDWARDSVILLE, 8,407.

Supplied by the Spring Brook Water Supply Co. See Wilkes-Barre.

ELIZABETH, 2,311.

Supplied by the Monongahela Valley Water Co. See Glassport.

ELIZABETHTOWN, 2,587.

THE ELIZABETHTOWN WATER COMPANY

Pres., H. K. Blough.....Elizabethtown
Sec., M. A. Will..... "
Treas., A. J. Heisey..... "
V. Pres., Treichler..... "
Supt., Paul R. Shirk..... "

Springs & wells, 3 artesian 7 & 15-in. 30 to 218 ft.; 1 mi. from center distribution; settling basins, 5 x 40 x 400 ft.

Pumps, 2-500,000 gal. Deming belted to gasoline engines, 2 15-hp. Otto; pumping direct & to reservoir, 16 x 108 ft.

Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 41, hose con. 2½-in.; valves, 36 r. & l. h. thd. Drummond; meters, 325 National; av. daily cons. 120,000 gal.; serv. con. 425; ord. pres. 70 lb. fire pres. same.

Rates; meter, min. charge $1.25 quarter, 4000 gal., 25c. 1000 gal. max., 9c. min.

ELIZABETHVILLE, 1,039.

ELIZABETHVILLE WATER CO.

Pres., Geo. H. Swab.....Elizabethville
Sec., J. S. Daniel..... "
Treas., J. A. Romber..... "
Supt., H. W. Spacht..... "

Springs & wells, 8 open; no purification.

Gravity distribution from reservoir, 54 x 80 x 12 ft.; hyd. 23, hose con. 2½-in. Kupferle & Darling; valves, 36 r. & l. h. opening; av. daily cons. 165,000 gal.; serv. con. 203.

Rates; flat, $2.50 six mo., bath $1, closet $1.

ELLWOOD CITY, 3,902.

ELLWOOD WATER COMPANY..

Pres., S. A. Roelofs..... Ellwood City
V. Pres., J. A. Gelbach..... " "
Sec.-Treas., G. B. Hancher.... " "
Supt., I. R. Burt..... " "
Cons. Engr., L. E. Chapin.....Canton, O.
Chemist, R. H. Craig.....EllwoodCity

Impounding reservoir on Slippery Rock Creek, 6,000,000 gal.; 1.25 mi. from center distribution; settling & coagulating basin, 3,000,000 gal.; mech. filters, 3,000,000 gal.; chemicals, hypochlorite of lime.

Boilers, 2 tubular 150-hp. Erie; hand stoking; pumps, 2-4,000,000 gal. Epping-Carpenter & Prescott; pumping direct & to reservoir.

Pipe, 16 mi. 4 to 30-in. c. i.; hyd. 65, hose con. 2½-in. Thomson; valves, 180 r. h. thd. Ludlow; meters, 872 Neptune; av. daily cons. 1,500,000 gal.; serv. con. 1168; ord. pres. 50 to 80 lb., fire pres. same.

Rates; flat, $8 year, bath $4, closet $3; meter, min. charge $2 quarter 5000 gal.; 40c. 1000 gal. max., 6c. min.

EMPORIUM, 2,916.

Pres., W. H. Howard.....Emporium
V. Pres., Frank Shives..... "
Sec., J. D. Logan..... "
Treas. & Supt., Grant S. Allen... "
Cons. Engr., H. B. Norton.....Ridgway

Salt Run; 3 mi. from center distribution; chemical, hypochlorite of lime.

Boiler, 50-hp. Erie; hand stoking; pumps, 1-172,800 gal. Deane, 1-432,000 gal. Deane; pumping to reservoirs, 3-42,500,000 gal.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½-in.; meters, none; av. daily cons. 270,000 gal.; serv. con. 600; ord. pres. 50 to 90 lb.

EMSWORTH, 1,510.

Supplied by the Ohio Valley Water Co. See Bellevue.

ERIE, 66,525.

MUNICIPAL.

Comr., E. D. Schultz.....Erie
" B. B. Nagle..... "
" Wm. Hamilton..... "
Sec. & Treas., Geo. C. Gensheimer..... "
Supt., E. W. Humphreys..... "
Cons. Engrs., Chester & Fleming,
Union Bank Bldg., Pittsburgh, Pa.
Chemist, J. S. Dunwoody.....Erie

Lake Erie; 7.5 mi. from center distribution; settling & coagulating basin, 3,200,000 gal.; mech. filters, 30,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 4 return tubular 150-hp. Erie, 4 water-tube 300-hp. Heine; hand & mech. stoking chain grate; pumps, 4-40,000,000 gal. Holly, Bethlehem & Worth., 2-40,000,000 gal. R. D. W.; pumping to reservoir, 34,000,000 gal. & standpipe (1912) steel.

Pipe, 147.75 mi. 4 to 42-in.; hyd. 926, hose con. 2½-in. R. D. W., Eddy & Rensselaer; valves, 2052 l. h. thd.; meters, 505 various; av. daily cons. 16,000,000 gal.; serv. con. 18,091; ord. pres. 35 to 120 lb., fire pres. same.

Rates; flat, $4 year, bath $3, closet $3; meter, min. charge $3.75 quarter, 20c. 1000 gal. max., 2c. min.

ESTERLY, *500.

ST. LAWRENCE WATER CO.

Pres., S. A. Brumbach.....Esterly
V. Pres., A. H. Adams..... "
Sec., W. D. Brumbach..... "
Treas., D. S. Brumbach..... "

Springs & artesian well, 8-in. 110 ft. depe; ½ mi. from center business section; reservoir, 150,000 gal.; no purification.

Pump, 1-144,000 gal. vert. duplex F. M. 1914 belted to gasoline engine, 4-hp. F. M. 1914; pumping to reservoir, 150,000 gal.

Pipe, 2 mi. 4 & 6-in.; hyd. 10, hose con. 4-in.; valves, 3 r. h. opening; meters, 3 Neptune; serv. con. 68; ord. pres. 60 to 100 lb., fire pres. same.

ETNA, *8,600.

MUNICIPAL.

Supt., H. A. Stoll.....Etna

Allegheny River; ½ mi. from center distribution.

Boilers, 3 water-tube 175-hp. Erie; hand stoking; pumps, 2-5,000,000 gal. Epping-Carpenter; pumping to elev. tanks, 2-282,-000 gal. steel.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 67, hose con. 2½-in. Ludlow; valves, 108 l. h. thd. Ludlow; meters, 135 Pittsburgh & Neptune; av. daily cons. 1,200,000 gal.; serv. con. 740; ord. pres. 30 to 125 lb., fire pres. same.

Rates; flat, $5 year; meter, 30c. 1000 gal.

EVERETT, 1,725.

EVERETT WATER COMPANY. Office, Millersburg, Pa.

Pres., H. G. Frederick.....Millersburg
Sec. & Treas.,
T. F. Bradenbaugh..... "
Supt., Jas. A. Coralt.....Everett

Springs; 1 to 2½ mi. from center distribution; no purification.

Steam furnished by Everett Light, Heat & Power Co.; pumps, one duplex Worth.; one 8½ x 10 triplex Platt d. con. to oil engine, 25-hp. F. M.; pumping direct & to reservoir, 2-1,150,000 gal.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 2½-in. R. D. W.; valves, 35 r. h. thd. various; av. daily cons. 125,000 gal.; serv. con. 250; ord. pres. 50 to 75 lb., fire pres. 100 lb.

FACTORYVILLE, 759.

NOKOMIS WATER CO.

Pres., Geo. T. Baily.....Factoryville
Sec. & Treas., E. W. Thompson "
Supt., I. B. Miller..... "

Lake Sheridan; 3 mi. from center distribution; no purification.

Gravity distribution; hyd. 15, hose con. 3-in. Ludlow; valves, 10 r. h. thd. Ludlow; meters, none; serv. con. 152; ord. pres. 67 lb., fire pres. same.

FERNWOOD, 551.

Supplied by Springfield Consolidated Water Supply Co. See Philadelphia.

FLOURTOWN, 495.

Supplied by Springfield Consolidated Water Co. See Philadelphia.

FORT WASHINGTON, 500.

Supplied by Springfield Consolidated Water Co. See Philadelphia.

FORD CITY, 4,850.

MUNICIPAL. Borough Water Commission.

Comr., D. A. Duff.....Ford City
" Joseph V. Thery..... " "
" H. S. Demy..... " "
Clerk, D. O. Crouch..... " "
Supt., A. B. Mohney..... " "
Engr. P'g. Sta., Peter Wentgen... " "

Allegheny River; ¼ mi. from center business section; no purification.

Pumps, 2-400,000 gal. ver. simplex Goulds 1905 geared to gas engine, 2 50-hp. ea. New Brighton 1905; pumping to reservoir, 1,500,000 gal.

Pipes, 7 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Ludlow & Michigan; valves, 57 r. h. opening Pittsburgh; meters, 737 Hersey; av. daily cons. 110,800 gal.; serv. con. 737; ord. pres. 85 to 90 lb., fire pres. same.

Rates; meters, min. charge $1 mo. 5000 gal.

FOREST CITY, 5,749.

Supplied by the Scranton Gas & Water Company. See Scranton.

FORTY FORT, 2,353.

Supplied by the Spring Brook Water Supply Co. See Wilkes-Barre.

FOUNTAIN HILL, 19,973.

Supplied by the Bethlehem City Water Co. See South Bethlehem.

FOXBURG, 578.

FOXBURG WATERWORKS CO.

Pres., J. M. Fox.....Foxburg
V. Pres., H. H. Porterfield..... "
Sec. & Treas., H. R. Panton..... "
Supt. & Des. Engr., F. B. Dale..... "

Wells, 4 tubular 8-in. 150 ft. deep; ½ mi. from center distribution; no purification.

Pumps, 1-3¾ x 20, 1-4½ x 20 driven by gas engines, 13-hp. Foos; pumping to reservoir, 400,000 gal.

Pipe, ½ mi. 4-in. Universal; hyd. 11, hose con. 2½-in.; valves, 16 r. & l. h. thd.; meters, none; av. daily cons. 40,000 gal.; serv. con. 150; ord. pres. 20 to 70 lb., fire pres. 70 to 100 lb.

Rates; flat, $1.50 mo.

FRACKVILLE, 3,118.

THE MOUNTAIN CITY WATER CO.

Pres., D. Gring.....Frackville
Sec., E. D. Bistline..... "
Treas., H. C. Gring..... "
Des. Engr., C. E. Cooper..... "
Supt. & Des. Engr., W. C. Haupt. "

Wells, 4 artesian 8 & 10-in. 402 to 568 ft. deep; at center distribution; reservoir, 500,000 gal.

Boilers, 2 tubular 200-hp. ea. Koeler; hand stoking; pumps, 1-300,000 gal. Platt, 1-150,000 gal. Riley; air compressors, 3; pumping direct.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 39, hose con. 2½-in. Darling; valves, 64 r. & l. h.

thd. Rensselaer; meters, 10 National; av. daily cons. 300,000 gal.; serv. con. 500; ord. pres. 50 to 85 lb., fire pres. same.

Rates; flat, $6 year, bath $3, closet $3; meter, min. charge $6 year, 30c. 1000 gal. max., 8c. min.

FREDERICKSBURG, 900.

FREDERICKSBURG WATER CO.

Pres. & Engr., C. G. Beaver, Fredericksburg
Sec., Dr. J. M. Strohm..... "
Treas., Edward Sholl..... "
Supt., Morris L. Wagner.... "

Well, 20 ft. in diam. 20 ft. deep; near center distribution.

Boiler, one vert. 18-hp. Lebanon; hand stoking; pumps, 1-10,728,000 gal. Snow; pumping to reservoir, 170,000 gal.

Pipe, one mi. 2 to 8-in. c. & w. i.; av. daily cons. 8,300 gal.; serv. con. 80.

Rates; flat, $5 year, bath $3, closet $3.

FREDERICKTOWN, *500.

FREDERICKTOWN WATER CO. Supplies Newton.

Pres., L. G. Wood.....Fredericktown
Sec. & Treas., L. M. Crowthers "

Monongahela River; no purification.

Boiler, return tubular 15 hp. 100 lb. Erie 1910; hand stoking; pumps, 1-76,000 gal. hor. simplex Wagner 1910; pumping to tank, 11,000 gal.

Pipe, one mi. 1 & 2-in.; valves, 8 r. h. opening; meters, 51 Worth. & Pittsburgh; av. daily cons. 7,5000 gal.; serv. con. 40; ord. pres. 53 lb.

Rates; meter, 55c. 1000 gal.

FREELAND, 6,197.

FREELAND WATER CO.

Pres., W. C. Koons.....Freeland
V. Pres., Wm. Johnson..... "
Sec., B. R. Davis..... "
Treas., & Gen. Mgr.,
Wm. Birkbeck..... "
Engr. P'g. Sta., Wm. Ashman..... "

Wells, 6 tubular 10-in. 380 to 525 ft. deep; near center distribution; no purification.

Boilers, 4 return tubular 70 & 120-hp. Erie & Vulcan; hand stoking; pumps, 3-720,000 gal. Jeanesville; pumping to reservoir, 1,500,000 gal.

Hyd. 40, hose con. 2½-in. Ludlow; valves, 135; meters, 20 various; av. daily cons. 300,000 gal.; serv. con. 1000; ord. pres. 35 to 70 lb., fire pres. same.

Rates; flat, $7.20 year, bath $4, closet $4; meter, min. charge $7.20 year 4000 gal., 25c. 1000 gal. max., 12½c. min.

GENESEE, 600.

GENESEE CITIZENS WATER CO.

Pres., C. M. McGinnis.....Genesee
V. Pres., G. F. Chapman..... "
Sec. & Treas., F. W. Reynoods..... "
Mgr., G. E. Calvin..... "
Supt., C. L. Reed..... "
Des. Engr., M. F. McCarn..... "
Chemist, P. H. Miller.....Ulysses

Springs; 1.5 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 2-60,000 gal. ea.; pipe, 2 mi. 4-in. c. i.; hyd. 11, hose con. 2½-in. Darling; valves, 10 r. h. thd. Eddy; meters, none; av. daily cons. 12,500 gal.; serv. con. 75; ord. pres. 45 to 50 lb., fire pres. 75 to 85 lb.

Rates; flat, $8 year, bath $2, closet $2.

GETTYSBURG, 4,030.

GETTYSBURG WATER CO.

Pres., W. H. O'Neal.....Gettysburg
Sec. & Treas.,
I. W. Kendlehart..... "
Supt., Robt. Caldwell..... "

Marsh Creek; settling basins, 3-180,000 gal.; mech. filters, 2-500,000 gal. ea. 1912; chemical, hypochlorite of lime.

Boilers, 2 return tubular 60-hp.; hand stoking; pumps, 3-2,000,000 gal. L-D-G & Barr; pumping direct & to reservoir, 1,000,000 gal.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. mostly Darling; meters, 75 Pittsburgh, National & Worth.; av. daily cons. 400,000 gal.; serv. con. 800; ord. pres. 20 to 50 lb.

GIRARDVILLE, 4,396.

Supplied by Girard Water Company. See West Mahonoy.

GLASSPORT, 5,540.

THE MONONGAHELA VALLEY WATER COMPANY, controlled by the American Water Works and Electric Company, 50 Broad St., New York, N. Y. Supplies Clairton, Dravosburg, Elizabeth, West Elizabeth and Wilson.

Pres., A. M. Lyon.....New York, N. Y.
V. Pres., D. M. Watt..... " " "
Sec., W. D. Frier..... " " "
Treas., M. F. Riley..... " " "
Supt., J. H. Graham.....Glassport
Ch. Engr., G. W. Biggs, Jr. New York, N. Y.
Chemist, W. Donaldson... " " "

Monongahela River; settling and coagulating basins, 50 ft. in diam. 20 ft. high; mechanical filters, 2,000,000 gal.; chemical, liquid chlorine, sulphute of alumina and lime

Boilers, 2 hor. water-tube 400-hp. Heine; hand stoking; pumps, 3-8,225,000 gal. Worth & Wilson-Snyder; pumping direct to reservoir, 1,000,000 gal.; standpipe (1988).

Pipe, 29 mi. 4 to 30-in. c. i.; hyd. 137, hose con. 2½-in. Ludlow; valves, Ludlow; meters, 1300 Neptune, National, Worth. & Pittsburgh; av. daily cons. 1,500,000 gal.; serv. con. 2652; ord. pres. 150 lb., fire pres. same.

GLEN LYON, 3,200.

Supplied from Nanticoke.

GLEN OLDEN, 1,157.

Supplied by Springfield Consolidated Water Supply Co. See Philadelphia.

GLEN ROCK, 1,263.

MUNICIPAL.

Sec. & Treas., H. A. Koller.....Glen Rock

Sup. & Engr. P'g. Sta.,
R. E. Stermer.....Glen Rock
Des. Engr., Joseph Dise..... " "
Springs; 3 mi. from center distribution.
Pump, 1-172,800 gal. driven by gasoline engine, 40-hp.; pumping to reservoir, 1,000,-000 gal.
Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 42, hose con. 2½ & 3-in. Ludlow; meters, 30 Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 125; ord. pres. 110 lb.
Rates; meter, 12c. 1000 gal.

GLEN SUMMIT, *350.

WYOMING VALLEY WATER SUPPLY CO. Office, Wilkes-Barre.
Pres., E. B. Thomas.....Wilkes-Barre
V. Pres., L. D. Smith..... "
Sec., D. G. Baird..... "
Treas., J. M. Baxter..... "
Gen. Mgr., F. M. Chase..... "
Des. Engr., J. M. Humphrey... "
Springs & reservoir, 186,000 gal.; no purification.
Boilers, return tubular 75-hp.; hand stoking; pump, 1-4,520,000 gal. Barr; pumping to reservoir, 199,000 gal.
Pipe, 3.2 mi. 4 to 12-in. c. i.; av. daily cons. 7,000 gal.; serv. con. 41; ord. pres. 15 to 98 lb.

GLENFIELD, 984.

Supplied by the Ohio Valley Water Co. See Bellevue.

GORDON, 1,185.

CITIZENS WATER COMPANY OF GORDON, PA. Office, 916 Lincoln Bldg., Philadelphia, Pa.
Pres., Chas. B. Blake.....Philadelphia
Sec., Jos. P. Dunwoody..... "
Treas., Wm. H. W. Quick..... "
Springs, 1.25 mi. from center distribution.
Gravity distribution from reservoirs; pipe, 2 mi. 3 & 4-in. c. i.; hyd. 11; serv. con. 200.
Rates; flat, $6 year, bath $3.

GREENSBURG, 13,012.

WESTMORELAND WATER COMPANY. Office, 214 So. Penna Ave., Supplies Derry, Irwin, Jeannette, Manor, Penn & Youngwood.
Pres., W. A. Huff.....Greensburg
Sec. & Mgr., L. B. Smith..... "
Treas., D. L. Dillinger..... "
Cons. Engr., Morris Knowles,
2548 Oliver Bldg., Pittsburgh
Impounding reservoirs on mountain streams, 4-800,000,000 gal., 13 mi. from center distribution.
Boilers, 25 & 30-hp. Erie; hand stoking; pumps, 1-3,000,000 gal. hor. comp. d. act. Worth. 1901, 1-1,000,000 gal. hor. comp. d. act. Platt 1890, 2-1,500,000 gal. ea. vert. centrifugal De Laval 1910 d. con. to elec. motors, 2-1,000,000 gal. vert. centrifugal Zainsville 1912 d. con. to elec. motors, 2 75-hp. ea. 220 v. 2 ph. 60 cys. Westg. 1910, one 100-hp. 220 v. 2 ph. 60 cys. Westg. 1912, one 65-hp. 220 f. 2 ph. 60 cys. Westg. 1912; elec. energy from Westmoreland Elec. Co.; pumping direct & to reservoirs, 5-8,000,000 gal.
Pipe, 100 mi. 4 to 18-in. c. i., cement & w. i.; hyd. 307, hose con. 2½-in. Ludlow; valves, 1000 r. h. opening Ludlow; meters, 7500 Pittsburgh & National; av. daily cons. 3,000,000 gal. 75%; serv. con. 8000; ord. pres. 50 lb., fire pres. same.
Rates; district 1-3, flat $9 year, bath $6, closet $6; meter, min. charge $3 quarter 5000 gal., 50c. 1000 gal. max., 6c. min.; district 4, flat, $6 year, bath $5, closet $5; meter, min charge $3 quarter 6000 gal., 50c. 1000 gal. max., 6c. min.

GREENTREE, 1,143.

Supplied by South Pittsburgh Water Co. See South Pittsburgh.

GREENVILLE, 5,909.

GREENVILLE WATER COMPANY. Office, 514 Smithfield St., Pittsburgh, Pa.
Pres., H. E. Pollock.....Pittsburgh
V. Pres., E. B. McNaughton..... "
Sec. & Treas., T. A. Mellon..... "
Supt., L. R. Stone.....Greenville
Cons. Engrs.,
Chester & Fleming, Union Bk. Bldg., Pittsburgh
Engr. P'g. Sta., Oliver Thompson, Greenville
Chemist, Chester C. Humphreys, Pittsburgh
Little Shenango River; 2 mi. from center distribution; mech. filters, 3-500,000 gal.; chemicals, hypochlorite of lime, soda ash & sulphate of alumina.
Pumps, 1-750,000 gal. Blake, 1-1,500,000 gal. Gardner; pumping to reservoir, 4,000,-000 gal.
Pipe, 13.3 mi. 4 to 12-in. c. i.; hyd, 73, hose con. 4-in. R. D. W.; meters, 103 Pittsburgh; serv. con. 1767; ord. pres. 25 to 75 lb.

HAMBURG, 2,301.

WINDSOR WATER CO.
Pres., Geo. F. Mehorg.....Hamburg
Sec., J. E. Melder..... "
Treas. & Supt.,
W. M. Raubenhold..... "
Springs & wells, 2 artesian 8-in. 230 & 307 ft. deep; 3.5 mi. from center distribution; no purification.
Boiler, vert. 40-hp.; hand stoking; air compressor, 1-200 cu. ft. steam driven Clayton, 1-464 cu. ft. Clayton driven by elec. motor, 50 hp. 2200 v. 3 ph. 60 cys. F. M.; elec. energy from Hamburg Gas & Elec. Co.; pumping to reservoir, 1,500,000 gal.
Hyd. 29; av. daily cons. 350,000 gal.; serv. con. 600; ord. pres. 120 to 160 lb., fire pres. same.

HANOVER, 7,057.

HANOVER & MCSHERRYSTOWN WATER CO. Supplies McSherrystown.
Pres., David Gring.....Newport
Sec., E. D. Bristline..... "

Treas., H. C. Gring.....Newport
Gen. Mgr., John H. Brough.....Hanover
Des. Engr., Chas. E. Schaup....Harrisburg
Engr. P'g. Sta., Ira Eichelberger...Hanover
Chemist, M. B. Leitch.....Steelton

Springs & artesian wells, 3 12-in. 385 to 500 ft. deep; 3.5 mi. from center distribution; chemicals, hypochlorite of lime & copper sulphate.

Boilers, one hor. return 65-hp. Franklin, 1 water-tube 200-hp. Franklin; hand stoking pumps, 1-1,500,000 gal. L-D-G, 1-1,000,000 gal. Worth., 1-1,500,000 gal. Platt; pumping to reservoir, 4-26,000,000 gal. & standpipe.

Pipe, 40 mi. 4 to 12-in. c. i.; hyd. 120, hose con. 2½-in. Darling; valves, Rensselaer; meters, 100 National; av. daily cons. 1,250,000 gal.; serv. con. 2700; ord. pres. 70 to 80 lb., fire pres. same.

Rates; flat, $7 year, bath $4, closet $5; meter, 30c. 1000 gal. max., 11c. min.

HARRISBURG, 64,186.

MUNICIPAL.

Sjpt., Harry F. Bowman.....Harrisburg
Ch. Engr. P'g. Sta., A. L. Burns. "
Supt. Filter Plant,
Clayton Danner..... "
Chemist, Dr. Geo. R. Moffitt.... "

Susquehanna River; settling basin, 4,317,000 gal.; coagulating basins, 2-167,000 gal.; mech. filters, 12-15,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.¼

Boilers, 2 return tubular 150-hp. Harrisburg; mech. stoking, Wilkins; pumps, 2-16,000,000 gal. ea. Worth., 3-5,000,000 gal. ea. Worth., 1-2,000,000 gal. vert. tri. exp. Barr, 1-10,000,000 gal. hor. comp. Harrisburg; pumping to reservoir, 2-26,000,000 gal.

Pipe, 91 mi. 4 to over 30-in. c. i.; hyd. 109, hose con. 2½-in. Eddy & Kennedy; valves, 2045 l. h. thd. Rensselaer & Kennedy; meter, 11,544 National, Thomson, Hersey, Neptune & Worth.; av. daily cons. 8,390,000 gal.; serv. con. 17,579; ord. pres. 40 to 85 lb., fire pres. same.

Rates; flat, $10 year, bath $4, closet $4; meter, min. charge $5 year, 12½c. 100 cu. ft.

HAVERFORD, 548.

Supplied by Springfield Consolidated Water Co. See Philadelphia.

HAWLEY, 2,018.

HAWLEY WATER CO.

Pres., W. D. Decker.....Hawley
Treas., E. L. Schlager..... "
Sec. & Mgr., Thos. J. Burke..... "

Springs & lake; ½ to one mi. from center of distribution.

Pumps, 2 driven by elec. motors; elec. energy from Paupack Elec. Co.; pumping to reservoirs, 4.

Hyd. 25; av. daily cons. 100,000 gal.; serv. con. 400.

HAYS, 1,888.

Supplied by South Pittsburgh Water Co. See South Pittsburgh.

HAYSVILLE, *800.

HAYSVILLE WATER COMPANY. Supplies part of Osborne.

Pres., Gen. Mgr. & Pur. Agt.,
John W. Fetter.....Haysville
V. Pres., W. C. Duncan.....Sewickley
Sec., James R. Kerr.....Haysville
Treas., Peter Seibert..... "

Springs.

Gravity distribution from reservoir, 350-,000 gal.

Rates; all meter, min. charge $6.66 six mo. 18,000 gal., 30c. 1000 gal.

HAZELTON, 25,452.

WYOMING VALLEY WATER SUPPLY CO. Office, Wilkes-Barre.

Pres., E. B. Thomas.....Wilkes-Barre
V. Pres., L. D. Smith..... "
Sec., G. G. Baird..... "
Treas., J. M. Baxter..... "
Gen. Mgr., F. M. Chase..... "
Supt., W. H. Davies.....Hazelton
Ch. Engr., J. M. Humphrey..... "

Impounding reservoirs, 76,791,000 gal. & wells, 2 open 15 ft. diam. 16 ft. deep; 4.4 & 7.5 mi. from center business section; no purification.

Boilers, 4 water-tube 750-hp. B. & W.; hand stoking; pumps, 3-4,130,000 gal. Knowles steam and one Scranton elec. driven by elec. motor 56 kw. 2200 v. 3 ph. 60 cys. Westg.; elec. energy from Harwood Electric Co.; pumping to reservoir, 4,808,000 gal.

Pipe, 21.8 mi. 4 to 30-in. c. i.; hyd. 55, hose con. 2½-in. Ludlow; valves, 212 r. h. thd. Fairbanks; meters, 55 Thomson, Pittsburgh & National; av. daily cons. 3,500,000 gal.; serv. con. 1350; ord. pres. 45 to 90 lb., fire pres. same.

HEIDELBERG, 1,848.

Supplied by South Pittsburgh Water Co. See South Pittsburgh.

HELLERTOWN, 915.

MUNICIPAL.

Pres., Council, A. F. Woodring..Hellertown
Sec. Boro., A. J. Welker..... "
Treas., Boro., W. H. Rentzheimer "
Comr. Engr., W. F. Cressman... "

Mountain spring; 2 mi. from center distribution.

Gravity distribution; hyd. 37, hose con. 2½-in. Eddy; serv. con. 126; ord. pres. 95 lb.

HENDERSONVILLE, 2,818.

MUNICIPAL.

Supt., W. T. York.....High Point
Sec., H. C. Sechrest.....Hendersonville
Engr. P'g. Sta.,
F. M. Johnson.....James Town, N. C.
Cgemist, State Laboratory.....Raleigh

Deep river; reservoir, 3,000,000 gal.; settling basins, 500,000 gal.; coagulating basins, 700,000 gal.; slow sand filters, 1,000,000 gal. 2-14 x 16 ft.; chemicals, sulphate of alumina and hypochlorite of lime.

Boilers, 2 125-hp. ea. 120 lb. Brownel 1902, one water-tube 150-hp. 150 lb, Casey

Hedges 1914; pumps, 1-1,000,000 gal. L-D-G 1914, 2-600,000 gal. hor. centrifugal High Point 1907, 1-1,000,000 gal. hor. centrifugal Platt 1914 belted to steam engine, 2 35-hp. ea. High Point 1907 & Greensboro 1914, 2-1,000,000 gal. hor. centrifugal Platt 1914 driven by elec. motors, 2-125-hp. ea. 2300 v. 3 ph. 60 cys. 1914; electric energy from Public Service Co.; pumping to elev. tank (1902) 150,000, steel.

Pipes, 20.5 mi. 4 to 12-in. c. i.; hyd. 334, hose con. 2½-in. R. D. W.; valves, 270 l. h. opening R. D. W.; meters, 900 Gamon, Pittsburg & Worth.; av. daily cons. 600,000 gal. 60%; serv. con. 1327; ord. pres. 60 to 75 lb., fire pres. 75 to 125 lb.

Rates; meter, min. charge 50c. mo. 1667 gal. 30c. 1000 gal. max., 10c. min.

HOLLIDAYSBURG, 3,724.

MUNICIPAL.

Pres., James W. Gramiller.....Hollidaysburg
Sec., Robert W. Smith..... "
Treas., John P. Jacobs..... "
Supt., Joseph Bender..... "

Mountain streams; 3.5 and 7 mi. from center business section; no purification; gravity distribution.

HOMESTEAD, 18,713.

MUNICIPAL.

Supt., H. E. Trautman.....Homestead

Monongahela River and wells, tubular. Along river bank; pumping.

HONESDALE, 2,945.

HONESDALE CONSOLIDATED WATER CO. Supplies Seelyville.

Pres., S. A. McMullen.....Waymart
V. Pres., J. D. Weston.....Honesdale
Sec., C. J. Smith..... "
Treas., C. C. Mumford..... "

Lakes; no purification; gravity distribution from reservoirs, 3.

Pipe, 17 mi. 3 to 14-in. c. i.; hyd. 50, hose con. 2½-in. Rensselaer; valves, 160 l. h. opening Rensselaer; meters 40 Thomson; serv. con. 1000; ord. pres. 50 lb. fire pres. 150 lb.

Rates; flat, $4 year, including bath and closet; meter, min. charge $3 quarter 10,000 gal. 30c. 1000 gal. max., 5c. min.

HONEY BROOK, 581.

MUNICIPAL.

Boro. Sec., S. M. Lemmon....Honey Brook

Springs; 2 mi. from center distribution; gravity distribution from reservoir, 1,200,000 gal.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 33, hose con. 2½-in. Thomson; av. daily cons. 15,000 gal.; serv. con. 145; ord. pres. 38 to 40 lb., fire pres. same.

HOUTZDALE, 1,434.

HOUTZDALE WATER CO.

Supt., Harry Boulton.....Houtzdale
Sec., C. G. Dickey..... "

Mountain stream; 7 mi. from center distribution; gravity distribution from reservoir, 300,000 gal.; av. daily cons. 350,000 gal.; serv. con. 500; ord. pres. 40 to 80 lb., fire prse. 70 to 95 lb.

HUGHESTOWN, 2,024.

Supplied by the Spring Brook Water Supply Co. See Wilkes-Barre.

HUGHESVILLE, 1,650.

HUGHESVILLE HOME WATER CO. Office, Millersburg, Pa.

Pres., H. G. Frederick.....Millersburg
Sec. & Treas.,
T. F. Bradenbaugh..... "
Supt., L. C. Carson.....Hughesville

Wells, tubular; one mi. from center distribution; no purification.

Pumps, 2-600,000 gal. duplex & triplex Platt driven by gasoline engine, 25-hp. & elec. motor, 20-hp. 110 v. d. c. & d. con. to water-turbine, 35-hp.; pumping to reservoir, 500,000 gal.

Pipe, 8 mi. 4 to 12-in. d. i.; hyd. 35, hose con. 2½-in. Loetzer & Rensselaer; valves, 50 r. & l. h. thd. various; av. daily cons. 175,000 gal.; serv. con. 325; ord. pres. 80 lb., fire pres. same.

HUNTINGDON, 6,861.

HUNTINGDON WATER SUPPLY CO. Office, 611 Peoples Bank Bldg., Scranton.

Pres., J. D. Stocker.....Huntingdon
Sec. & Treas., F. R. Stocker.... "

Standing Stone Creek; pumping.

HYDE PARK, 315.

Supplied by the Scranton Gas & Water Company. See Scranton.

HYNDMAN, 1,164.

HYNDMAN WATER CO.

Pres., B. F. Madore.....Bedford
Supt., W. S. Madore.....Hyndman

Mountain spring; gravity distribution from reservoir, 1,000,000 gal.

Pipe, 4 mi. 4 to 12-in.; hyd. 28, hose con. 2½-in. R. D. W.; valves, 14 r. h. opening; serv. con. 280; ord. pres. 85 to 100 lb., fire pres. same.

INDIANA, 5,749.

CLYMER WATER CO., of Indiana, Pa.

Pres., F. L. Harvey.....Indiana
Sec. & Supt., W. S. Hamilton..... "
Treas., J. W. McGartney..... "
Cons. Engr., R. H. Wilson..Saltsburgh, Pa.
Engr. P'g. Sta., Martin Norby.....Indiana

Two Lick Creek; 2.75 mi. from center distribution; mech. filters, 1,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 Erie & Phoenix; hand stoking; pumping to reservoir, 3,000,000 gal.

Pipe, 17 mi. 4 to 12-in. c. i.; hyd. 83, hose con. 2½-in. R. D. W.; valves, r. h. opening Rensselaer; meters, 800 various; av. daily cons. 500,000 gal.; serv. con. 1400; ord. pres. 90 to 120 lb.

INGRAM, 2,037.

Supplied by South Pittsburgh Water Co. See South Pittsburgh.

IRWING, 2,886.

Supplied by the Westmoreland Water Co. See Greensburg.

JEANNETTE, 8,077.

Supplied by the Westmoreland Water Co. Office, 214 South Penna. Ave., Greensburg.

Local Supt., James Billups.....Jeannette

JENKINTOWN, 2,968.

MORELAND SPRING WATER CO.

Pres., Howard Fleck.....Jenkintown
V. Pres., H. K. Walt..... "
Sec. & Treas., J. W. Hunsberger. "
Supt., J. S. Brubaker..... "
Chemist, Edwin Shissler..... "

Pennepeck Creek & wells, 24 tubular 6-in. 150 to 500 ft. deep; ½ mi. & 4 mi. from center distribution; settling basins, 300,000 gal.; chemical, hypochlorite of lime.

Boilers, 4 175-hp. Lebanon; pumps, 4-2,000,000 gal. Worth.; pumping to standpipes, 2 (1907, 1910) iron & elev. tank, 200,000 gal. iron.

Pipe, 30 mi. 4 to 12-in. c. i.; hyd. 106, hose con. 3-in. R. D. W.; valves, 215 l. h. thd. R. D. W.; meters, 1300 National, Pittsburgh & Neptune; av. daily cons. 450,000 gal.; serv. con. 1362; ord. pres. 80 lb., fire pres. same.

Rates; meter, min. charge $12, $3 1000 cu. ft.

Partly supplied by Springfield Consolidated Water Co. See Philadelphia.

JERMYN, 3,158.

Supplied by the Scranton Gas & Water Company. See Scranton.

JESSUP, 3,242.

Supplied by the Scranton Gas & Water Company. See Scranton.

JOHNSTOWN, 55,482.

JOHNSTOWN WATER COMPANY.

Supt., W. H. C. Ramsey.....Johnstown

Impounding reservoirs on mountain streams, 5-1,087,000,000 gal.; 2.5 to 6.75 mi. from center distribution; chemical, hypochlorite of lime.

Boilers, 2 50-hp. Erie; hand stoking; pumps, 1-400,000 gal. steam Worth., 1-360,000 gal. triplex Goulds d. con. to gas engine, 60-hp. Otto, 2-230,000 gal. triplex Goulds belted to gas engine, 30-hp. Otto, 2-400,000 gal. steam Worth., 1-187,200 gal. triplex Deane d. con. to gas engine, 30-hp.; pumping direct, to reservoirs, 2-212,000 gal. & elev. tanks, 4-225,000 gal. wood.

Pipe, 71 mi. 4 to 12-in. c. i.; hyd. 234, hose con. 2½ & 4½-in. R. D. W. & Smith; valves, 800 l. h. thd. Rensselaer; meters, 3017 mostly Neptune, Pittsburgh & Thomson; av. daily cons. 9,830,000 gal.; serv. con. 12,144; ord. pres. 66 to 72 lb., fire pres. same.

JUNIATA, 5,285.

MUNICIPAL.

Boro. Engr., Harvey Linton.....Juniata
Supt., J. C. Turner.....Juniata

Impounding reservoir at Homer Gap, 23,000,000 gal.; 3 mi. from center distribution; gravity distribution.

Pipe, c. i.; hyd. 83, hose con. 2½-in. R. D. W. & Darling; valves, 75 l. h. thd. Darling; meters, 3 Pittsburgh; av. daily cons. 350,000 gal.; serv. con. 1350; ord. pres. 75 to 110 lb., fire pres. same.

KANE, 6,626.

THE SPRING WATER CO., of Kane.

Pres., Thos. L. Kane.....Kane
V. Pres., David Howells..... "
Treas., W. H. Davis..... "
Sec., A. D. Clark..... "
Asst. Treas. & Supt., W. Russell..... "
Engr., P'g. Sta., A. G. Anderson..... "

Springs & wells, 18 tubular 8-in. 200 to 318 ft. deep; 1.5 mi. from center distribution; reservoir, 1,400,000 gal.; no purification.

Boilers, 2 hor. 100-hp. ea. Struthers-Wells; natural gas fuel; pumps, 4-3,100,000 gal. duplex Worth. & 3 vert. triplex Deane & Platt; gas engines, 80, 135 & 2-125-hp. Alberger & Struthers-Wells; pumping direct & to standpipe (1900) steel.

Pipe, 18 mi. 3 to 10-in. c. i.; hyd. 70, hose con. 3½-in. R. D. W. & Darling; valves, 125 r. & l. h. thd. R. D. W. & Darling; meters, 900 various; av. daily cons. 1,000,000 gal.; serv. con. 1400; ord. pres. 40 to 125 lb., fire pres. same.

Rates; flat, modern house $22 year; meter, 35c. 1000 gal.

KENNETT SQUARE, 3,049.

MUNICIPAL.

City Pres., Jas. E. May....Kennett Square
Chmn. Comrs., R. E. Dallas " "
Sec., Wm. E. Voorhees..... " "
Supt. & Engr. P'g. Sta.,
Wm. Vandever..... " "

Springs; one mi. from center distribution; reservoir, 2,000,000 gal.; chemical, hypochlorite of lime.

Boiler, vert. 10-hp. 60 lb. Coatesville 1905; pumps, 1-300,000 gal. hor. simple d. act. American 1905, 1-150,000 gal. hor. single 1880 geared to water-turbine 40-hp.; pumping to elev. tanks, 2 (1900) 200,000 gal. steel.

Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 50. hose con. 2½-in.; valves, 30 r. & l. h. opening Crane; meters, none; av. daily cons. 160,000 gal.; serv. con. 140; ord. pres. 40 to 60 lb., fire pres. 80 lb.

Rates; flat, min. $10 year, bath $1, closet $1.50.

KINGSTON, 6,449.

Supplied by the Spring Brook Water Supply Co. See Wilkes-Barre.

KITTANING, 4,311.

ARMSTRONG WATER CO. Office, 611 Peoples Bank Bldg., Scranton, Pa. Supplies Wickboro.

Pres., James D. Stocker.....Jermyn
Sec., Frank R. Stocker..... "

Supt., J. P. Turping.....Kittaning
Cons. Engr., A. J. Walker.....Ambler
Treas., Wm. Walker..... "

Allegheny River; at center distribution; settling & coagulating basin, 2,000,000 gal.; mech. filters, 5-350,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 hor. 125 hp. ea. Erie; natural gas fuel; pumps, 1-2,000,000 gal. Barr, 1-1,500,000 gal. hor. Worth.; pumping to reservoir, 1,750,000 gal.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 76, hose con. 2½-in. R. D. W. & Ludlow; valves, 300 l. h. thd. Darling; meters, 40 Pittsburgh; av. daily cons. 1,300,000 gal.; serv. con. 1550; ord. pres. 40 to 70 lb., fire pres. same.

KNOX, 1,100.

MUNICIPAL.

Vil Clerk, A. J. Rose.....Knox
Supt., H. S. McClellan..... "

Artesian well, 400 ft. deep, 400 ft. deep; 2000 ft. from center distribution; reservoir, 12,500 gal.

Pump driven by gas engine, 12-hp. Bessemer; pumping to elev. tank, 25,000 gal.

Hyd. 16; meters, 20 Pittsburgh; av. daily cons. 12,500 gal.; serv. con. 200; ord. pres. 20 to 60 lb., fire pres. 60 to 85 lb.

Rates; meter, 50c. 1000 gal.

KNOXVILLE, 5,651.

Supplied by South Pittsburgh Water Co. South Pittsburgh.

KYLERTOWN, 485.

Supplied by the Winburne Water Company. See Winburne.

LACEYVILLE, 479.

MUNICIPAL.

Vil. Pres., W. B. Beaumont.....Laceyville
Sec., J. B. Edwards..... "
Supt., C. B. Pickett..... "

Springs & wells, 8-in. 196 ft. deep; ½ mi. from center distribution; no purification.

Pumps, one Rumsey driven by gasoline engine, 4.5-hp.; pumping direct.

Hyd. 20, hose con. 3-in. Eureka; valves, 9 h. r. thd. Loetzer; meters, none; serv. con. 125; ord. pres. 40 to 80 lb.

Rates; flat, $6 year, bath $3, closet $3.

LANCASTER, 47,227.

MUNICIPAL.

Supt., E. K. Saylor.....Lancaster
Sec., John T. Brainard..... "
Engr. P'g. Sta., C. M. Nagle..... "
Chemist, J. E. Goodell,
106 Loraine Ave., Upper Monclair, N. J.

Creek & well; ½ mi. from center distribution; filtration plant owned by Lancaster Water Filtration Co., 612 Fidelity Bldg., Philadelphia, Pa.

Boilers, 8 hor. water-tube 1344-hp. B. & W.; hand stoking; pumps, 3-28,000,000 gal. R. D. W. & Worth.; elec. motors, 750-hp. 440 v. 25 cys.; pumping to reservoir, 6,000,000 gal. & standpipe (1903) steel.

Pipe, 70 mi. 4 to over 30-in. c. i.; hyd. 700, hose con. 2½ & 4½-in. Darling & Rensselaer; valves, 1156 l. h. thd. Darling, Eddy & Rensselaer; meters, 4343 various; av. daily cons. 7,400,000 gal., serv. con. 12,110; ord. pres. 26 to 81 lb., fire pres. same.

WEST END WATER CO.

Pres., Jos. M. Fritchey.....Lancaster
Sec., Treas. & Supt.,
Allan A. Herr..... "

Supply from the Municipal Waterworks of Lancaster.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 11; valves, 23; meters, 57; av. daily cons. 16,000 gal.; serv. con. 57; ord. pres. 40 lb., fire pres. same.

Rates; meter, 30c. 1000 gal.

LANSDOWNE, 4,066.

Supplied by Springfield Consolidated Water Co. See Philadelphia.

LANSE, 400.

Supplied by the Winburne Water Company. See Winburne.

LANSFORD, 8,321.

PANTHER VALLEY WATER CO. Supplies Coal Dale, & Newquehoning.

V. Pres., Edwin Ludlow.....Lansford
Supt., J. B. Warrimer..... "
Chemist, J. H. Savage..... "

Impounding reservoirs and mountain streams, 4-1,450,000 gal.; 3 mi. from center business section; no purification.

Pumps, 9-4,320,000 gal.; pumping to reservoir, 9,000,000 gal. & standpipe, steel.

Pipe, 50 mi. 4 to 12-in. c. i.; hyd. 84, hose con. 2½-in.; meters, 400 various; av. daily cons. 4,310,000 gal.; serv. con. 2100; ord. pres. 30 to 125 lb. fire pres. same.

LEBANON, 9,240.

MUNICIPAL.

Supt., E. H. Shroff.....Lebanon
Clerk, J. D. Kerr..... "

Impounding reservoir on mountain stream, 100,000,000 gal.; 6.5 mi. from center distribution; chemical, liquid chlorine & copper sulphate.

Boilers, 2 hor. tubular 50-hp. Union; hand stoking; pumps, 2-2,500,000 gal. ea. Snow; pumping to reservoir.

Pipe, 47.2 mi. 4 to 30-in. c. i.; hyd. 214, hose con. 2½-in. Ludlow; valves, 628 l. h. thd. Rensselaer; meters, 117 National & Hersey; av. daily cons. 2,225,000 gal.; serv. con. 5290; ord. pres. 60 to 65 lb., fire pres. same.

Rates: flat, $5 year, bath $2, closet $2.50; meter, min. charge $1 mo., 20c. 1000 gal. max., 4½c. min.

LEECHBURG, 3,624.

LEECHBURG WATER WORKS CO.

Ch. Engr. & Gen. Supt.,
W. C. Hawley.....Leechburg
V. Pres., Geo. S. Davison..... "
Supt., D. C. Shull..... "
Sec. & Treas., Jos. T. Miller..... "

Purchase water from the Apollo Water Works Co.

Gravity distribution from reservoir, 9,500,000 gal.

Pipe; 6.5 mi. 4 to 12-in. c. & w. i.; hyd. 44, hose con. 2½-in. R. D. W. & Ludlow; valves, 92 l. h. opening Rensselaer; meters, 704 various; av. daily cons. 320,000 to 350,000 gal.; serv. con. 712; ord. pres. 40 to 110 lb. fire pres. same.

Rates: meters, min. charge $3.75 quarter 1,000 cu. ft. 30c. 100 cu. ft.

LEHIGHTON, 5,316.

LEHIGHTON WATER SUPPLY CO.

Pres., John H. Foy.....Lehighton
Sec., Geo. W. Reynolds..... "
Treas., J. B. Russell..... "
Supt. & Engr. P'g. Sta.,
Geo. M. West..... "

Impounding reservoirs on mountain streams, 30,000,000 gal.; 3 to 7 mi. from center distribution; no purification.

Gravity distribution from reservoir; pipe 26 mi. 4 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Williamsport & Tamaqua; valves, 50 r. h. thd. various; meters, 15 Buffalo, Hersey; av. daily cons. 2,400,000 gal.; serv. con. 1200; ord. pres. 75 to 85 lb., fire pres. same.

Rates: meter, 50c. 1000 gal. max., 3c. min.

LEWISTON, 8,166.

LEWISTON-REEDSVILLE WATER CO.

Office, 622 Court St., Reading.
Gen. Supt.,
A. J. Yeager, Dunn Bldg., Buffalo, N. Y.
Sec., Wm. H. Miller, Jr.....Reading
Supt., S. W. Cooper.....Lewiston

LINWOOD STATION, 785.

SUPPLIED BY THE NEW CHESTER WATER CO. See Chester.

LLANERCH, 250.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

LOCK HAVEN, 7,772.

MUNICIPAL.

Supt., Chas. Teller.....Lock Haven

McElhattan & Harvey's Run; gravity distribution.

LUZERNE, 5,426.

SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

McDONALD, 2,543.

CITIZENS WATER CO. OF McDONALD.

Pres., C. R. Buckheet.....McDonald
V. Pres., Samuel Shane..... "
Sec., Treas. & Supt.,
E. S. McWreath..... "
Cons. Engr., Alex. Potter,
50 Church St., New York, N. Y.

Impounding reservoir on Patrick Run; mech. filters, 1,000,000 gal.; chemicals, hypochlorite of lime.

Boilers, 2 return tubular water-tube 100 to 125 hp. Sterling & Erie; hand stoking; pumps, 2-1,000,000 gal. Snow; pumping to standpipe (1894) 63,500 gal. iron.

Pipe, 4.5 mi. 4 to 12-in.; hyd. 43, hose con. 2½-in. Ludlow; valves, 40 l. h. thd. Ludlow; meters, 568 National & Neptune; av. daily cons. 420,000 gal.; serv. con. 568; ord. pres. 70 to 92 lb., fire pres. same.

Rates; meter, 60c. 1000 gal. max., 8c. min.

McKEESPORT, 420,694.

MUNICIPAL.

Comr., J. B. Ayres.....McKeesport
" David H. Brown..... "
" M. F. Kelly..... "
Supt., D. M. White..... "
Chemist, E. C. Trax..... "

Youghiogheny River; ¼ mi. from center distribution; settling & coagulating basin, 3,000,000 gal.; mech. filters, 6-1,000,000 gal.; chemicals, lime, soda ash, sulphate of alumina & sulphate of iron.

Boilers, 5 vert. water-tube 1100-hp. B. & W.; mech. stoking, Lehigh; pumps, 2-3,000,000 gal. Blake, 1-5,000,000 gal. Wilson-Snyder; pumping direct & to reservoir, 5,000,000 gal.

Hyd. 478, hose con. 2½-in. R. D. W.; valves, 934 l. h. thd. R. D. W. & Rensselaer; meters, 3798 Pittsburgh & National; av. daily cons. 3,572,000 gal.; serv. con. 6500; ord. pres. 40 to 120 lb., fire pres. same.

Rates: flat, $8 year, bath $7.50, closet $7; meter, min. charge $4 year 2000 cu. ft., 20c. 100 cu. ft. max., 7 c. min.

McKEES ROCKS, 14,702.

SUPPLIED BY THE OHIO VALLEY WATER CO. See Bellevue.

McSHERRYTOWN, 1,724.

SUPPLIED BY THE HANOVER AND McSHERRYTOWN WATER CO. See Hanover.

MACUNGIE, 772.

MUNICIPAL.

Supt., O. H. Lohrman.....Macungie
Cons. Engr., Wilson Wenner.....Emaus

Impounding reservoirs, 212,000 gal.; one mi. from center business section; no purification; gravity distribution from reservoir.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 31, hose con. 2½-in.; valves, 22 r. h. opening Chapman; av. daily cons. 50,000 gal. 100%; serv. con. 150; ord. pres. 96 lb., fire pres. same.

Rates: flat, $3 year, bath, $1.50, closet, $1.

MAHANOY CITY, 16,936.

MAHANOY CITY WATER CO.

Pres. & Supt.,
Edw. S. Sittiman.....Mahanoy City
Sec., Chas. S. Parmley..... " "

Springs & wells, 6 artesian 8 & 10 in. 250 to 650 ft. deep; 2 mi. from center distribu-

tion; impounding reservoir, 185,000,000 gal.

Boilers, 2 return tubular 700 hp. Heine & B. & W.; hand stoking; pumps, 2-4,750,000 gal. Worth. & Snow; pumping to reservoir, 1,500,000 gal.

Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 79, hose con. 2½-in. Adams; valves, 100 r. h. thd. Rensselaer, Chapman & Darling; meters, 130 National, Hersey, Pittsburgh & Thomson; av. daily cons. 2,000,000 gal.; serv. con. 2900; ord. pres. 60 to 80 lb., fire pres. same.

Rates: flat, $5 year, bath $4.50, closet $5; meters, 10c. 1000 gal.

MANOR, 1,039.

SUPPLIED BY THE WESTMORELAND WATER CO. See Greensburg.

MANSFIELD, 1,645.

MANSFIELD WATER CO.

Pres., L. A. Watres.....Scranton
Treas., Lawrence H. Watres..... "
Supt., J. H. Elliott.....Mansfield

Springs; 4 mi. from center distribution; chemical, liquid chlorine.

Boilers, 2 80-hp. Keeler; hand stoking; pumps, 2 Knowles; pumping to reservoir, 11,000,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 47; meters, none; av. daily cons. 250,000 gal.; serv. con. 350; ord. pres. 70 to 100 lb., fire pres. same.

MARYSVILLE, 1,693.

MARYSVILLE WATER CO.

Pres., P. F. Duncan.....Marysville
Treas. & Supt., J. W. Beers..... "
Sec., J. C. Beers..... "

Mountain stream; 1.5 to 5 mi. from center distribution.

Gravity distribution from reservoir, 266,000 gal.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in. R. D. W.; valves, 30 l. h. thd.; meters, 200 Thomson, Neptune, Gamon & National; av. daily cons. 800,000 gal.; serv. con. 500; ord. pres. 60 lb., fire pres. same.

Rates: flat, $6 year; meter, min. charge $10 year 50,000 gal., 10c. 1000 gal.

MASONTOWN, 890.

MUNICIPAL.

Pres. Comrs., H. A. Johnson...Masontown
Comr., Josiah Honsaker..... "
" Frank Blackshire..... "
Supt. & Engr. P'g. Sta.,
Geo. Taylor..... "
Cons. Engrs., Chester & Fleming,
Union Bk. Bldg., Pittsburgh.

Monongahela River; 5 mi. from center distribution; reservoir, 15,000 gal.; settling & coagulating basins, 18,000 gal.; slow sand filters, 144,000 gal.; chemical, hypochlorite of lime, sulphate of alumina & soda ash.

Pumps, 2-144,000 gal. Olds d. con. to gas engines, 2 8 & 25-hp. Otto; pumping to elev. tanks, 3-100,000 gal. wood.

Pipe, 3 mi. 4 to 6-in. c. i.; hyd. 17, hose con. 2½-in.; meters, 260 Pittsburgh; av. daily cons. 45,000 gal.; serv. con. 260; ord. pres. 85 lb., fire pres. same.

Rates: meter, 30c. 1000 gal.

MAXTON, 1,321.

MUNICIPAL.

Supt., S. H. Dunland.....Maxton

MAYFIELD, 3,662.

SUPPLIED BY THE SCRANTON GAS & WATER COMPANY. See Scranton.

MEADVILLE, 12,780.

MUNICIPAL.

Supt., Harry Ellsworth.....Meadville
City Clerk, G. S. Maxwell..... "
Engr. P'g. Sta., Wm. Clough..... "

Wells, 24 tubular 6-in. 65 ft. deep; 2 mi. from center distribution; no purification.

Boilers, 2 return tubular 200-hp. Phoenix; mech. stoking, Jones; pumps, 1-4,000,000 gal. Worth., 1-3,000,000 gal. Epping-Carpenter; pumping to reservoir, 4,000,000 gal. & to elev. tank, 30,000 gal. steel.

Pipe, 35 mi. 4 to 20-in. c. i.; hyd. 190, hose con. 2½-in. R. D. W., Ludlow & Darling; valves, 450 l. h. opening Eddy; meters, 2480 various; av. daily cons. 1,750,000 gal.; serv. con. 3031; ord. pres. 25 to 115 lb., fire pres. same.

Rates: meter, 15c. 100 cu. ft. max., 5c. min.

MEDIA, 3,562.

MUNICIPAL. Board of Water Commissioners

Chm., M. C. Mechner.....Media
Comr., Joseph M. Rogers..... "
" James B. Flounders..... "
Sec., Edward Minton..... "
Designing Engr., C. M. Broomall.... "
Engr. P'g. Sta., P. E. Ahern..... "

Redley Creek; one mi. from center business section; settling basins, 100,000 gal.; mechanical filters, 1,000,000 gal. Wetherell; chemical, hypochlorite of lime & sulphate of alumina.

Boilers, 66-hp. 100 lb. Wetherell, 1893, 2 88-hp. ea. 100 lb. Wetherell, 1898; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Wetherell 1898, 1-200,000 gal. vert. triplex Goulds 1895 belted to water-turbine, 15-hp., 1-300,000 gal. hor. single Cassin, 1872 d. con. to water-turbine 15-hp. steam engine, Corliss-Wetherell 1898; pumping to reservoir, 1,250,000 gal. and standpipe (1898) 250,000 gal.

Pipe, 16 mi. 4 to 8-in. c. i.; hyd. 95, hose con. 2½-in. R. D. W.; valves, 125, r. & l. h. opening; meters, 18; av. daily cons. 515,000 gal. 100%; service con. 1225; ord. pres. 25 to 100 lb., fire pres. same.

Rates: flat, $5.00 yr., bath, $3.00, closet $2.00.

MERCERSBURG, 1,410.
MERCERSBURG WATER CO.
Pres., Wm. J. Yeager.....Mercersburg
V. Pres., Henry Spangler..... "
Treas., H. W. Byron..... "
Sec., H. H. Spangler..... "
Supt., J. M. McCullough..... "
Mountain stream & wells, 2 open 8 x 10 ft. 8 ft. deep; 4.5 mi. from center distribution; reservoir, 4,500,000 gal.; no purification.
Gravity distribution from reservoir, 150,000 gal.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. Eddy; meters, 2 Pittsburgh; av. daily cons. 175,000 gal.; serv. con. 400; ord. pres. 50 to 80 lb., fire pres. same.
Rates: flat, $6 year, meter, 15c. 1000 gal.

MESHOPPEN, 630.
MESHOPPEN BORO WATER CO.
Pres., Edw. Gunston.....Wilkes-Barre
Sec., Treas. & Supt.,
A. H. Sterling.....Meshoppen
Cons. Engr., Thos. A. Wright..Wilkes-Barre
Little Meshoppen Creek; 1.5 mi. from center distribution; settling basins, 2; gravel & charcoal filters.
Gravity distribution from reservoirs, 2-250,000 gal.
Pipe, 5 mi. 4 to 12-in.; hyd. 17, hose con. 2½-in.; valves, 16 l. h. opening Ludlow; meters, one Buffalo; av. daily cons. 20,000 gal.; serv. con. 120; ord. pres. 75 lb.

MEYERSDALE, 3,741.
SAND SPRING WATER CO.
Pres., W. T. Hoblizell.....Meyersdale
Secy., S. B. Philson..... "
Treas., W. B. Cook..... "
Supt., John M. Oates..... "
Springs & Wells, 5 tubular 8 & 14-in. 500 to 1000 ft. deep; 1.5 mi. from center distribution; reservoir, 6,000,000 gal.
Boilers, 2 50 & 80-hp. Erie; air compressor, Bacon; pumping to reservoir, 350,000 gal.
Pipe, 7.5 mi. 4 to 8-in. c. i.; hyd. 32, hose con. 2½-in. Roe-Stephens; meters, 15 Pittsburgh; av. daily cons, 250,000 gal.; serv. con. 800; ord. pres. 70 to 110 lb., fire pres. 125 lb.
Rates: flat, $7 year; meter, 30c. 1000 gal.

MEYERSTOWN, *3,000.
MEYERSTOWN WATER COMPANY.
Pres., W. L. Black.....Meyerstown
Sec. & Supt., Geo. H. Horst... "
Treas., A. S. Harkness..... "
Springs; 3 mi. from center distribution; reservoir, 4,000,000 gal.; no purification.
Pumps, 1-125,000 gal. Gleason driven by gasoline engines, 20 hp. Otto; pumping to reservoir, 250,000 gal.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in.; valves, 30 r. & l. h. thd. Eddy; meters, none; av. daily cons. 100,000 gal.; serv. con. 350; ord. pres. 15 to 30 lb.
Rates: flat, $6 year, bath & closet $6.

MIDDLEBURG, 531.
MIDDLEBURG WATER CO. Office, Millersburg, Pa.
Pres., T. F. Bradenbaugh.....Millersburg
Treas., H. G. Frederick..... "
Supt., Calvin Stetter.....Middleburg
Mountain spring; 1.5 mi. from center distribution; no purification.
Gravity distribution from reservoir, 360,000 gal.
Pipe, c. i.; hyd. 21, hose con. 2½-in.; valves, 15 l. h. thd.; meters, 6 Pittsburgh & National; av. daily cons. 90,000 gal.; serv. con. 225; ord. pres. 85 to 105 lb., fire pres. same.
Rates: flat, modern house $15; meter, 35c. 1000 gal. max., 4c. min.

MIDDLETOWN, 5,374.
MIDDLETOWN & SWATARA WATER CO. Supplies Royalton. Office, 304 Commonwealth Trust Bldg., Harrisburg, Pa.
Pres., David Gring.....Newport
Sec. & Pur. Agt., E. Bistline..... "
Treas., P. K. Miller..... "
Gen. Mgr., A. W. Dunkle.....Harrisburg
Supt., Wm. Roop.....Middletown
Des. & Op. Engr.,
Chas. E. Schaup.....Harrisburg
Chemist, Wm. Litch.....Steelton
Branch of Swatara Creek; 3 mi. from center distribution; impounding reservoir, 10,000,000 gal.; settling & coagulating basin, 100 x 30 x 12 ft.; mech. filters, 10,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.
Boilers, 2 return tubular 125-hp. ea. Harrisburg; hand stoking; pumps, 1-1,500,000 gal. Worth., 1-1,000,000 gal. Platt; gas engine, 20-hp. International; water-turbines; pumping to standpipe (1888) 165,000 gal. w. i.
Pipe, 23 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½-in. R. D. W.; valves, 160 Rensselaer; meters, various; av. daily cons. 600,000 gal.; serv. con. 862; ord. pres. 30 to 65 lb., fire pres. 70 to 105 lb.

MIDLAND, 1,244.
MIDLAND WATER CO.
Pres., J. W. Dougherty,
1917 Oliver Bldg., Pittsburgh
V. Pres., C. C. Ramsey..... "
Sec., C. W. Rowlands..... "
Treas., G. A. Turville..... "
Gen. Mgr., W. C. Rice,
Midland Ave. & 8th St., Midland
Pur. Agt., J. W. Todd.....Pittsburgh
Engr. P'g. Sta., J. H. Murphy.....Midland
Chemist, A. G. Greenamyer..... "
Ohio River; ½ mi. from center business section; settling basins, 2-300,000 gal. mechanical filters, 800,000 gal. W. B. Scaife; chemicals, hypochlorite of lime & sulphate of iron and lime.
Boilers, 4 vert. water-tube, 600-hp. 175 lb. B. & W., 10 water-tube 350-hp. 175 lb. B. & W.; gas fuel from Pittsburgh Crucible Steel Co.; pumps, 4-4,000,000 gal. ea.

hor. simple d. act. Epping-Carpenter, 2-4,000,000 gal. hor. simple d. act. Wilson-Snyder, 2-900,000 gal. ea. hor. centrifugal Jeanesville 1913 d. con. to elec. motors, 2 20-hp. ea. 220 v. 3 ph. 25 cys. G. E. 1913, 2-900,000 gal. hor. centrifugal Jeanesville 1913 d. con. to elec. motor, 2 35-hp. ea. 220 v. 3 ph. 25 cys. G. E. 1913, 2-15,000,000 gal. ea. vert. centrifugal R. D. W. 1913 d. con. to elec. motor 2 550 hp. 6600 v. 3 ph. 25 cys. G. E. 1913; elec. energy from Pittsburgh Crucible Steel Co.; pumping direct.

Pipe, 4.5 mi. 6 to 12-in. c. i.; hyd. 27, hose con. 2½-in. R. D. W. & Ludlow; valves, 69 r. h. opening Kennedy; meters 36, Pittsburgh; av. daily cons. 400,000 gal.; serv. con. 560; ord. pres. 70 to 100 lb., fire pres. 120 lb.

MIFFLINBURG, 1,559.

MUNICIPAL.

Chmn. Comrs., C. C. Beckley...Mifflinburg
Comr., E. Miller..... "
" W. H. Grove..... "
Town Clerk,
H. D. Snodgrass..... "
Cons. Engr., Alexander Potter,
50 Church St., New York, N. Y

Mountain stream; 5 mi. from center distribution; settling basin, 20 x 50 ft.

Gravity distribution from reservoir, 94,000 gal.

Pipe, 4 mi. 4 & 6-in. c. i.; hyd. 40; valves, 6; meters, 9; serv. con. 428; ord. pres. 80 lb., fire pres. 78 to 163 lb.

Rates; flat, $3 year, bath $2.25, closet $2.25; meter, 5c. 1000 gal.

MIFFLINTOWN, 954.

MIFFLINTOWN WATER CO.

Pres., W. H. Banks.....Mifflintown
Treas., J. L. Hartman..... "
Sec., W. L. Hoopes..... "
Supt., F. M. M. Pennell..... "

Macedonia Run; 5 mi. from center distribution; no purification.

Gravity distribution from reservoir, 450,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 12, hose con. 3-in. Reading; valves, 24 r. h. opening; meters, none; av. daily cons. 90,000 gal.; ord. pres. 15 to 90 lb.

Rates; flat, $5 year, bath $3, closet $2.

MILLERSBURG, 2,394.

MILLERSBURG HOME WATER CO.

Pres., H. G. Frederick.....Millersburg
Sec., Treas. & Supt.,
T. F. Bradenbaugh..... "

Mountain springs & well, 3 tubular 8-in. 300 to 500 ft. deep; 2.5 mi. from center distribution; no purification.

Pumps, 3-800,000 gal. 2 triplex Platt & one deep well Downie belted to gasoline engine, 13 hp. National & gas engines, 50-hp. F. M.; gas producers, 60-hp. F. M.; water-turbines, 35-hp. Smith; air lift, Harris; pumping to reservoir, 500,000 gal.

Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Loetzer & Rensselaer; valves, 75 r. h. thd. various; meters, 25 National; av. daily cons. 175,000 gal.; serv. con. 800; ord. pres. 70 lb., fire pres. same.

MILLMONT, 208.

SUPPLIED BY ANGELICA WATER & LIGHT CO. See Oakbrook.

MILLVALE, 7,861.

MUNICIPAL.

Chmn. Comrs., Wm. Fox.....Millvale
Comr., J. W. Kitchers..... "
City Clerk, H. H. Dickson..... "
Supt., Jas. Grundy..... "
Engr. P'g. Sta., Jas Kerr..... "

Allegheny River; ½ mi. from center distribution; chemical, liquid chlorine.

Boilers, 4 return tubular 100 & 125 hp.; hand stoking; pumps, 2-2,000,000 gal. ea. Wilson-Snyder; pumping direct & to reservoir, 4,445,000 gal.

Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Ludlow & Bourbon; valves, 88 r. h. thd. Ludlow & Bourbon; meters, 9 Pittsburgh; av. daily cons. 1,200,000 gal.; serv. con. 1100; ord. pres. 60 to 130 lb., fire pres. same.

Rates; meter, 25c. 1000 gal. max., 8c. min.

MILTON, 7,460.

WHITE DEER MOUNTAIN WATER CO.

Pres., J. I. Higbee.....Milton
Sec.-Treas., R. W. Pines..... "
Supts., H. S. Keim & J. B. Wilhelm "
Cons. Engr., Wm. H. Dechant.....Reading

Mountain springs; 13.5 mi. from center distribution.

Gravity distribution from reservoirs, 2-3,500,000 gal. & standpipe (1883, 1898) iron.

Pipe, 46.6 mi. 4 to 16-in. c. i.; hyd. 200, hose con. 2½-in. R. D. W. & Darling; valves, 422 r. h. thd. Darling; meters, 110 Neptune & National; av. daily cons. 2,300,000 gal.; serv. con. 3890; ord. pres. 65 to 90 lb., fire pres. same.

MINERS MILLS, 3,159.

SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

MINERSVILLE, 7,240.

THE MINERSVILLE WATER CO.

Pres., Jos. Geiz.....Minersville
Treas., Chas. T. Kear..... "
Supt., Albert S. Kear..... "

Impounding reservoir on mountain stream 100,000,000 gal.; 3.5 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 3.

Pipe, 15 mi. 4 to 14-in. c. i.; hyd. 48, hose con. 2½-in. Darling; valves, r. h. thd. Rensselaer; meters, 38 National; av. daily cons. 1,000,000 gal.; serv. con. 2300; ord. pres. 35 to 160 lb., fire pres. same

Rates; flat, $6 year, bath $3, closet $3.50; meter, min. charge $4.50 quarter, 20c. 100 cu. ft. max., 6c. min.

MINOOKA, 3,100.

SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

MONESSEN, 11,775.

TRI-CITIES WATER CO. Office, 514 Smithfield St., Pittsburgh, Pa.
Pres., T. A. Mellon.....Pittsburgh
Gen. Mgr., H. E. Pollock..... "
Cons. Engrs.,
Chester & Fleming
Union Bk. Bldg., Pittsburgh
Audr., E. B. McNaughton.....Pittsburgh
Supt., W. W. Darby..... "
Chemist, C. C. Humphreys..... "

For details of supply and pumping equipment, see Charleroi; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Pipe, 16.75 mi. 4 to 30-in. c. i.; valves, 111; meters, 807; av. daily cons. 1,700,000 gal.; serv. con. 2347; ord. pres. 25 to 130 lb., fire pres. same.

MONONGAHELA CITY, 7,598.

MONONGAHELA CITY WATER CO.
Pres., J. B. Clark.....Monongahela City
Supt., Bert Nutt..... " "
Cons. Engr., S. A. Taylor,
506 2nd National Bk. Bldg., Pittsburgh

Monongahela River & wells, 2 open 25 & 30 ft. in diam. 40 ft. deep; ½ mi. from center distribution; settling & coagulating basin, 36 x 60 ft.; mech. filters, 2,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, hor. tubular 150-hp. Erie; hand stoking; pumps, 1-2,000,000 gal. Wilson-Snyder, 2-1,500,000 gal. triplex Deming; 1-500,000 gal., one centrifugal; elec. motors, 2 100-hp. ea., one 30-hp. & one 1-hp. 220 v. 2 ph. 60 cys. Westg., one 3-hp. 220 v. 2 ph. 60 cys. Crocker-Wheeler; elec. energy from West Penn Electric Co.; pumping to reservoir, 2,000,000 gal.

Pipe, 17.25 mi. 2 to 12-in. c. i.; hyd. 56, hose con. 2½-in. Rensselaer & R. D. W.; valves, 187 r. h. thd. Rensselaer; meters, 1040 Pittsburgh, National, & Neptune; av. daily cons. 1,000,000 gal.; serv. con. 1375; ord. pres. 50 to 130 lb., fire pres. same.

Rates; flat, $1 mo.; meters, 30c. 1000 gal.

MONTGOMERY, 1,490.

MONTGOMERY WATER CO.
Pres., A. P. Hull.....Montgomery
Sec., John Meixel..... "
Treas., E. S. Hull..... "
Gen. Mgr. & Pur. Agt.,
E. J. Bardo..... "

Creek and wells, 2 tubular 8-in. 230-ft. deep; near center of business section; impounding reservoirs, 2-1,250,000 gal.; settling basins, 2-30,000 gal.; mechanical filters, 150,000 gal. Roberts; chemical, sulphate of alumina.

Pumps, 1-144,000 gal. triplex, Platt 1887 driven by oil engine 25-hp. Fairbanks 1913; pumping to reservoir above.

Pipe, 5.5 mi. 4 to 10-in. c. i.; hyd. 35, hose con. 2½-in. R. D. W. & Darling; valves, 22 l. h. opening, R. D. W. & Darling; meters, 40 various; av. daily cons. 150,000 gal. 80%; serv. con. 400, ord. pres. 85 to 97 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $2; meters, min. charge $1 mo. 3300 gal. 30c. 1000 gal. max., 17c. min.

MOOSIC, 3,694.

SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

MORTON, 1,071.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

MOSCOW, 650.

THE MOSCOW WATER CO.
Pres., J. F. Mears.....Moscow
Sec.-Treas., J. T. Richards..... "

Springs; 1.5 mi. from center distribution.

Gravity distribution from reservoir.

Hyd. 3, hose con. 2½-in.; ord. pres. 30 to 100 lb.

MOUNT CARBON, 335.

SUPPLIED BY POTTSVILLE WATER CO. See Pottsville.

MT. CARMEL, 17,582.

THE MOUNT CARMEL WATER COMPANY.
Pres., Thomas M. Righter.....Mt. Carmel
V. Pres. & Sec., M. K. Watkins. " "
Sec., Joseph Gould..... " "
Supt., James H. Smith..... " "

Mountain springs & wells, 8 artesian 6-in. 1398 & 1172 ft. deep; one mi. from center distribution; no purification.

Air compressor, Ingersoll-Rand; steam is purchased; pumping to reservoir, 10,000,000 gal.

Pipe, 13.3 mi. 4 to 12-in. c. i.; hyd. 79, hose con. 2½-in.; valves, 144 l. h. opening; meters, 824 various; av. daily cons. 650,000 gal.; serv. con. 4000; ord. pres. 40 to 70 lb., fire pres. same.

Rates: flat, $6 year; meter, 50c. 1000 gal. with rebates ranging from 20 to 70%.

MT. GRETNA, *2,500.

MT. GRETNA CAMP-MEETING ASS'N. Office, 1215 W. 3rd St., Harrisburg, Pa.
Pres., A. S. Kreider .....Annville
Comr., E. L. Kinkenbach .....Harrisburg
Supt., C. P. Focht.....Mt. Gretna

Artesian well, 4 in. 300 ft. deep; ¼ mi. from center distribution; reservoirs, 2-80,000 gal.; no purification.

Air lifts & air compressor, Ingersoll-Rand driven by gasoline engines, 6 & 8 hp. Jacobson; pumping to reservoir, 45,000 gal. & elev. tank, 35,000 gal. wood.

Pipe, 700 ft. deep & 4-in. w. i.; hyd. 20, hose con. 1¼-in.; valves, 11 r. h. thd.; av. daily cons. 20,000 gal.; serv. con. 275; ord. pres. 60 to 100 lb., fire pres. same.

MT. JOY, 2,166.

MUNICIPAL.

Chmn. Comr., Chas. Ricksecker, Mount Joy
Borough Pres., George H. Brown " "
Pres. of Council, B. S. Dillinger. " "
Clerk, R. Fellenbaum..... " "

Impounding reservoir, Chiquesck Creek, 750,000 gal.; ½ mi. from center business section; no purification.

Boilers, hor. tubular 45-hp. 80 lb. Farquuharson 1913; hand stoking; pumps, 1-40,000 gal. vert. tri. exp. d. act. Platt 1-560,000 gal. vert. tri. exp. d. act. Platt, 1-960,000 gal. hor. duplex Worth. steam driven; gasoline engine, 50-hp. Otto; pumping to reservoir above.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 40, hose con. 2½-in. & 4-in.; meters, one Buffalo; serv. con. 500.

Rates: flat; bath $3, closet $3.

MT. POCONO, 750.

FAIR VIEW WATER CO.

Pres., Treas. & Supt.,
W. K. La Bar.....Mount Pocono
Sec., Frank S. La Bar..... " "

Wilson Spring; one mi. from center distribution.

Pumps, 1-53,300 gal. Rife, 1-82,000 gal. Goulds driven by gasoline engines, 8 & 15-hp. Otto; pumping to reservoir, 125,000 gal.

Pipe, 3 mi. 4 to 12-in. c. i.; meters, 115 Buffalo; av. daily cons. 55,000 gal.; serv. con. 115; ord. pres. 20 to 110 lb., fire pres. same.

Rates: meter, min. charge 12 year, 60c. 1000 gal. max., 40c. min.

MT. UNION, 3,338.

MOUNT UNION WATER CO.

Pres., Albert J. Walker.....Mount Union
Sec., Margaret H. Bergen.. ....Huntingdon
Treas., L. M. Walker.....Ambler

Springs and impounding reservoir, 2,000,000 gal.; 5.5 mi. from center business section; gravity distribution; no purification.

Hyd. 57 Eddy; valves, 51 l. h. various; meters, 35 Neptune; av. daily cons. 400,000 gal. serv. con. 712; ord. pres. 98 lb., fire pres. same.

Rates: meters, 45c. 1000 gal. max., 7c. min.

MOUNTAIN HOME, 140.

MOUNTAIN HOME WATER CO.

Pres. & Supt.,
Geo. G. Shafer.....Mountain Home
Engr. P'g. Sta.,
Casper Buck..... " "

Springs; near center distribution.

Pumps, 1-3600 gal. driven by over shot water wheel; pumping to elev. tank, wood; av. daily cons. 3000 gal.; serv. con. 20; ord. pres. 5 to 25 lb.

MOUNTVILLE, 803.

MUNICIPAL.

Supt., E. B. Kready.....Mountville
Cons. Engr., F. H. Shaw,
310 Bremenan Bldg., Lancaster

Springs & wells, 6-in. 142 ft. deep; ¾ mi. from center distribution; settling & coagulating basin, 300,000 gal.; chemicals, none.

Pumps, 1-16,000 gal. Barry & Zecher driven by gasoline engines, 4-hp. International; pumping to reservoir, 3000 gal.

Hyd. 31, hose con. 2½-in. Darling; meters, 145 Neptune; av. daily cons. 10,000 gal.; serv. con. 145; ord. pres. 50 to 73 lb., fire pres. same.

MUNSON, 477.

SUPPLIED BY THE WINBURNE WATER COMPANY. See Winburne.

NANTICOKE, 18,877.

THE NORTH MOUNTAIN WATER SUPPLY CO. Supplies West Nanticoke Glen Lyon & Alden. (Controlled by the Spring Brook Water Supply Co. See Wilkes-Barre.)

Supt., James H. Coppin.....Nanticoke

Impounding reservoir on creek, 3,000,000,000 gal.; 7 mi. from center distribution; chemicals, copper sulphate.

Gravity distribution from reservoir, 20,000,000 gal.

Pipe, 52 mi. 4 to 30-in. c. i.; hyd. 150, hose con. 2½-in. Ludlow, Rensselaer & R. D. W.; valves, 300 l. h. thd. Ludlow & Rensselaer; meters, 200 Neptune, Thomson, National & Pittsburgh; av. daily cons. 4,500,000 gal.; serv. con. 4000; ord. pres. 35 to 125 lb., fire pres. same.

NARBERTH, 1,790.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

NESCOPECK, 1,578.

SUPPLIED BY THE BERWICK WATER CO. See Berwick.

NESQUEHONING, 1,655.

SUPPLIED BY THE PANTHER VALLEY WATER CO. See Lansford.

NEW BLOOMFIELD, 762.

BLOOMFIELD WATER & SEWER CO.

Pres. & Supt.,
A. R. Johnston.....New Bloomfield

Spring; no purification.

Gravity distribution from reservoir, 40,000 gal.

Pipe, 1.5 mi. 4 to 12-in. c. i.; hyd. 13, hose con. 2¼-in.; valves, 8 r. & l. h. thd.; av. daily cons. 60,000 gal.; serv. con. 150; ord. pres. 40 lb., fire pres. same.

NEW CASTLE, 36,280.

CITY OF NEW CASTLE WATER CO. (Controlled by American Water-works & Electric Company, 50 Broad St., New York, N. Y.)

Pres., G. E. Hoffmaster.. New York, N. Y.
V. Pres., J. C. Adams.... " " "
Sec. & Treas., B. C. Hovis " " "
Supt., J. H. Simpson.....New Castle

Shenango River; 1.5 mi. from center distribution; settling & coagulating basin, 75 x 150 x 11 ft.; mech. filters, 8,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & lime.

Boilers, one water-tube 150-hp. Geary, 2 water-tube 200 & 250-hp. B. & W.; hand stoking; pumps, 1-6,000,000 gal. rotary Root, 1-5,000,000 gal. rotary Root, 1-6,000,000 gal. duplex Epping-Carpenter, 1-5,000,000 gal. hor. Nordberg, 1-4,500,000 gal. hor. Worth., 1-1,500,000 gal. hor. Prescott, 1-3,000,000 gal. hor. Worth., 1-1,000,000 gal. hor. L-D-G; pumping to reservoir, 6,335,000 gal. & standpipe, steel.

Pipe, 57.3 mi. 4 to 16-in. c. i.; hyd. 250 various; meters, 6017 various; av. daily cons. 3,376,000 gal.; ord. pres. 100 to 175 lb., fire pres. 125 to 175 lb.

NEW HOLLAND, 1,106.

NEW HOLLAND WATER CO.
Pres., A. W. Snader.....New Holland
Treas., Gen. Mgr. & Pur. Agt.,
H. K. Storb..... " "

Springs; 3 mi. from center business section; no purification; gravity distribution.

Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 2, hose con. 2½-in.; valves, 70 r. h. opening; meters, 24 National & Pittsburgh; av. daily cons. 55,000 gal.; serv. con. 250; ord. pres. 20 to 55 lb.

Rates; flat, $6 year, bath $3, closet $3; meter, min. charge $8 year, 35c. 1000 gal. max., 15c. min.

NEW KENSINGTON, 7,707.

NEW KENSINGTON WATER CO. Supplies Arnold & Parnassus. Office, 514 Smithfield St., Pittsburgh, Pa.
Pres., T. A. Mellon.....Pittsburgh
Sec., H. E. Pollock..... "
Treas., H. A. Phillips..... "
Supt., W. T. McClenahan.New Kensington
Cons. Engrs., Chester & Fleming,
Union Bk. Bldg., Pittsburgh
Chemist, Chester C. Humphreys, "

Allegheny River; mech. filters, 6-500,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Pumps, 4-12,000,000 gal. Epping-Carpenter, Snow & Nordberg; pumping to reservoir, 10,000,000 gal.

Pipe, 21.7 mi. 4 to 16-in. c. i.; meters, 2700 Pittsburgh; av. daily cons. 1,500,000 gal.; serv. con. 3,000; ord. pres. 150 lb.

NEWMANSTOWN, 612.

THE NEWMANSTOWN WATER CO.
Pres. & Supt., John L. Shultz,Newmanstown
V. Pres., Samuel Cox..... "
Sec. & Treas., N. P. Coldren "
Cons. Engrs.,
Wm. H. Dechant & Son.....Reading

Springs & reservoir; 1.2 mi. from center distribution;

Pipe, 1.2 mi. 4 to 12-in.; hyd. 13, hose con. 2½-in.; valves, 6; av. daily cons. 9,000 gal.; serv. con. 170; ord. pres. 70 to 80 lb., fire pres. same.

Rates; flat, $5 year; meters, 20c. 1000 gal.

NEW OXFORD, 838.

MUNICIPAL.
Vil. Sec., Thos. E. Bower...New Oxford

Little Conewago Creek; one mi. from center distribution; chemicals, hypochlorite of lime & sulphate of alumina.

Pump 1-288,000 gal. Goulds driven by gasoline engine, 20-hp. White & Middleton; pumping to standpipe (1896) 120,000 gal. iron.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 30; valves, 30 R. D. W. & Darling; meters, none; av. daily cons. 35,000 gal.; serv. con. 130; ord. pres. 45 lb., fire pres. same.

NEWPORT, 2,009.

THE NEWPORT HOME WATER CO.
Pres., David Gring.....Newport
Sec. & Supt., E. D. Bistline..... "
Treas., C. K. Miller..... "
Des. Engr., Chas. E. Schaup..... "
Engr. P'g. Sta., John M. Miller... "
Chemist, M. B. Litch..... "

Mountain springs; 2.5 mi. from center distribution; settling basins, 200,000 gal. mech. filters, 250,000 gal.; chemical, sulphate of alumina.

Gravity distribution from reservoir, 125,000 gal.; hyd. 28 Reading & Rensselaer; meters, 25 National & Pittsburgh; av. daily cons. 250,000 gal.; serv. con. 549; ord. pres. 50 to 90 lb., fire pres. same.

NEWTOWN, 1,675.

NEWTOWN ARTESIAN WATER CO.
Pres., Geo. C. Worstall.....Newtown
V. Pres., T. S. Kenderdine..... "
Sec., H. C. Worstall..... "
Treas., E. H. Gourley..... "
Supt., L. R. Kenderdine..... "

Wells, 4 artesian 8 & 10-in. 125 to 300 ft deep; ⅓ mi. from center distribution; chemical, copper sulphate.

Boilers 2 hor. tubular 160-hp. Thropp & Lebanon; hand stoking; pumps, 4-504,000 gal. Worth. & Downie; pumping to reservoir, 650,000 gal.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 32, hose con. 3-in. Thomson; valves, 35 l. h. thd. Thomson; meters, 5 National; av. daily cons. 150,000 gal.; serv. con. 475; ord. pres. 45 to 60 lb., fire pres. same.

NEW WILMINGTON, 758.

NEW WILMINGTON WATER SUPPLY CO.
Pres., R. J. Tolten.....New Wilmington
Treas., J. F. Williams..... " "
Sec., H. F. Getty..... " "
Cons. Engr., Morris Knowles,
2548 Oliver Bldg., Pittsburgh
Engr. P'g. Sta.,
W. C. Sewall.....New Wilmington

Springs & wells, 6 tubular 4 & 8-in. 90 to 350 ft.deep; one mi. from centerdistribution; no purification.

Pumps, 5-86,400 gal. Myers & American belted to gas & gasoline engines, 4 & 6-hp. International; pumping to reservoir, 330,-000 gal.

Pipe, 2.5 mi. 4 to 12-in. c. & w. i.; hyd. 24, hose con. 2½-in. R. D. W.; valves, 21 l. h. thd. R. D. W.; meters, 100 National & Pittsburgh; serv. con. 202; ord. pres. 30 to 80 lb., fire pres. same.

Rates: flat, $8 year; meter, 40c. 1000 gal. max., 25c. min.

NICHOLSON, 852.

NICHOLSON WATER CO.

Pres., Jeremiah Stephens.....Nicholson
Sec.-Treas., G. G. Rought..... "
Supt., Geo. B. Keyser..... "
Chemist, Geo. R. Taylor,.
155 Wyoming Ave., Scranton

Horton Creek; 2.5 mi. from center distribution; chemical, hypochlorite of lime.

Gravity distribution; pipe, 5 mi. 4 to 12-in. c. i.; hyd. 15, hose con. 3-in.; meters, none; av. daily cons. 100,000 gal.; serv. con. 190; ord. pres. 45 lb., fire pres. same.

Rates: flat, $10 year, bath $4, closet $4.

NORRISTOWN, 27,875.

NORRISTOWN INSURANCE & WATER CO. Supplies Bridgeport.

Pres., Montgomery Evans.....Norristown
Treas., W. H. Slingluff..... "
Sec., H. E. Crawford..... "
Supt., Robt. A. Jackson..... "

Schuylkill River; settling & coagulating basin, 1-1,500,000 gal.; mech. filters, N. Y. C. Jewell; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 4 water-tube 400-hp. Heine; hand stoking; pumps, 2-5,000,000 gal. ea. Worth.; pumping to reservoir, 14,000,000 gal.

Pipe, 37.75 mi. 4 to 30-in. c. i.; hyd. 230, hose con. 2½-in. various; valves, 269 r. h. thd.; meters, 410 Neptune; av. daily cons. 2,750,000 gal.; serv. con. 7000; ord. pres. 40 to 85 lb.

Rates: flat, $7 year, bath $3, closet $3; meter, 20c. 100 cu. ft. max., 5c. min.

NORTH BRADDOCK, 11,824.

SUPPLIED BY THE PENNSYLVANIA WATER COMPANY. See Wilkinsburg.

NORTH EAST, 2,672.

MUNICIPAL.

Chmn. Comrs., C. S. Moses....North East
Comr., H. E. Sullivan..... " "
" C. A. Luke..... " "
Sec. & Supt., J. N. Leet..... " "
Engr. P'g. Sta., P. Goodrich... " "

Springs & impounding reservoir, 70,000,-000 gal.; 3 mi. from center distribution; coagulating basin, 500,000 gal.; mech. filters, 500,000 gal., filtering area 80 sq. ft. Hungerford & Terry; chemicals, sulphate of alumina & lime.

Boiler, 30-hp. 100 lb. Erie 1902; hand stocking; pumps, 1-250,000 gal. hor. simple Snow 1907; pumping to reservoir, 4,000,000 gal.

Pipe, 15 mi. 4 to 8-in. c. i.; hyd. 15, hose con. 2½-in. Ludlow; valves, 70 r. h. opening Ludlow; meters, 80 Hersey, Union, Thomson & Buffalo; av. daily cons. 400,000 gal.; serv. con. 780; ord. pres. 80 to 100 lb., fire pres. same.

Rates: flat, $5 6 mo., bath $2.50, closet $3; meter, min. charge $1 mo. 1000 gal., 10c. 1000 gal. max., 5c. min.

NORTH YORK, 1,902.

SUPPLIED BY THE YORK WATER CO. See York.

OAKBROOK, 330.

ANGELICA WATER & LIGHT CO. Office, Read & Elm Sts., Reading, Pa. Supplies Millmont.

Pres. & Supt., C. Q. Guldin.....Reading
Sec., Chas. H. Schaeffer..... "
Treas., Geo. O. Runyeon..... "
Engr. P'g. Sta., J. L. Augstadt.... "

Angelica Creek; ½ mi. from center distribution; impounding reservoir, 20,000,-000 gal.

Boiler, hor. tubular 40-hp.; hand stoking; pumps, 2-576,000 gal.; water-turbine; pumping to reservoir, 300,000 gal.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 40, hose con. 2½ to 4-in. Darling & Rensselaer; valves, 60 r. & l. h. thd. various; meters, 12 Hersey & Pittsburgh; serv. con. 306; ord. pres. 40 to 80 lb., fire pres. same.

Rates: flat, $5 year; meter, 8c. 100 cu. ft.

OAKDALE, 1,352.

MUNICIPAL. OAKDALE BORO WATERWORKS.

Vil. Sec., J. C. Keenan.....Oakdale

Works under construction.

OGONTZ, 612.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

OIL CITY, 15,657.

MUNICIPAL.

Mayor, Dr. J. B. Siggins.....Oil City
Sec., A. M. Breckenridge..... " "
Supt., M. F. Johnson..... " "
City Engr., B. B. Weber..... " "
Engr. P'g. Sta., Jas. K. Miller..... " "

Wells, 14 tubular 12-in. 30 to 40 ft. deep; 2 mi. from center business section; no purification.

Boilers, 3 return tubular 100-hp. ea. 100 lb. Oil City; natural gas fuel; pumps, 1-3,000,000 gal. vert. comp. c. & f. wh. Barr 1899, 1-3,000,000 gal. vert. tri. exp. c. & f. wh. National 1904, 1-1,000,000 gal. vert. tri. exp. c. & f. wh. National 1914, 1-500,000 gal. hor. duplex Oil City 1907 belted to steam engine, 60-hp. Oil City 1907, 1-72,000 gal. hor. duplex F. M. 1914

geared to elec. motor, 7.5-hp. 220 v. s. ph. F. M. 1914; elec. energy from Citizens Light & Power Co.; pumping to reservoir, 1-3,000,000 gal. & standpipes, 5-812,000 gal.

Pipe, 42 mi. one to 24-in. c. i.; hyd. 306, hose con. 2½-in. Rensselaer; valves, 337 r. h. opening Rensselaer & Ludlow; meters, 3300 National; av. daily cons. 1,900,000 gal. 50%; serv. con. 3300; ord. pres. 60 to 175 lb., fire pres. same.

Rates: meter, min. charge $1.25 for 5000 gal., 20c. 1000 gal. max., 6c. min.

OLD FORGE, 11,324.

SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

OLYPHANT, 8,505.

SUPPLIED BY THE SCRANTON GAS AND WATER COMPANY. See Scranton.

ORWIGSBURG, 1,801.

MUNICIPAL.

City Engr., O. D. Petery.....Orwigsburg
Supt., M. E. Campbell..... "

Impounding reservoirs on mountain stream, 2-125,000 gal.; 2.5 mi. from center distribution; no purification.

Gravity distribution; pipe, 4 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 4-in.; av. daily cons. 5000 gal.; serv. con. 300; ord. pres. 10 to 25 lb., fire pres. 50 to 120 lb.

Rates: flat, $5 year, bath $2, closet $2.

OSBORNE, 425.

SUPPLIED BY HAYSVILLE WATER CO. See Haysville.

OSCEOLA MILLS, 2,437.

THE OSCEOLA WATER SUPPLY CO.

Pres., John McLarren.....Osceola Mills
Sec., Eli A. Hall..... " "
Treas., Gen. Mgr. & Pur. Agt.,
W. H. Woodcock..... " "

Springs & reservoirs, 3-1,624,000 gal.; no purification; gravity distribution.

Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 25, hose con. 4-in.; meters, 10; av. daily cons. 500,000 gal.; serv. con. 385; ord. pres. 40 to 100 lb., fire pres. same.

Rates: flat, $6 year, bath $2, closet $3; meter, min. charge 50c. mo., 30c. 1000 gal. max., 8c. min.

PALM, 300.

SUPPLIED BY PENNSBURG WATER CO. See Pennsburg.

PALMERTON, 1,100.

PALMER WATER CO.

Pres., Edgar Palmer.....Palmerton
Gen. Mgr., J. E. Hayes, Jr..... "
Sec., C. W. Sexton..... "
Gen. Supt., J. A. Singmaster.... "
Supt., H. N. Blunt..... "
Des. Engr., G. L. Ostgren..... "
Engr. P'g. Sta., H. E. Breit..... "
Chemist, F. G. Breyer..... "

Wells, 7 artesian 6 & 8-in. 350 ft. deep; near center distribution.

Pumps, 3-1,000,000 gal. driven by elec. motors, 20, 35 & 50-hp. 440 v. 3 ph. 60 cys. Westg.; elec. energy from Palmerton Lighting Co.; air compressor, McKiernan-Terry; pumping direct & to standpipe (1899) 180,000 gal. iron.

Pipe, 5 mi. 3 to 12-in. c. i.; hyd. 68, hose con. 2½-in. Smith; valves, 105 r. & l. h. thd. Eddy; meters, 50 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 700; ord. pres. 52 to 80 lb.

PALO ALTO, 1,873.

SUPPLIED BY POTTSVILLE WATER CO. See Pottsville.

PAOLI, 400.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

PARKESBURG, 2,522.

PARKESBURG WATER COMPANY. Office, Millersburg, Pa.

Pres., H. G. Frederick.....Millersburg
Sec. & Treas.,
T. F. Bradenbaugh..... "
Supt., A. L. Good.....Parkesburg

Springs & wells; 3.5 mi. from center distribution; no purification.

Pumps, 1-200,000 gal. triplex Deming driven by oil engine, 12-hp. Mietz & Weiss, 1-300,000 gal. triplex Platt d. con. to oil engine, 18-hp. Mietz & Weiss; elec. motor, 20-hp. 110 v. 3 ph. 60 cys. G. E.; elec. energy from Chester Valley Elec. Co.; pumping to reservoir, 1,000,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2½-in. R. D. W. & Rensselaer; valves, 50 r. h. thd. various; meters, 25 National; av. daily cons. 125,000 gal.; serv. con. 500; ord. pres. 60 lb., fire pres. same.

PARNASSUS, 2,578.

SUPPLIED BY NEW KENSINGTON WATER COMPANY. See New Kensington.

PARSONS, 4,338.

SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

PATTON, 3,907.

THE PATTON WATER CO.

Sec. & Treas., E. C. Brown.....Patton

PECKVILLE, 3,915.

SUPPLIED BY THE SCRANTON GAS & WATER COMPANY. See Scranton.

PENN, 1,048.

SUPPLIED BY THE WESTMORELAND WATER CO. See Greensburg.

PENNSBURG, 1,141.

PENNSBURG WATER COMPANY. Supplies Palm & Red Hill.

Pres., E. J. Wieder.....Pennsburg
V. Pres., D. S. Kern..... "
Sec., E. W. School..... "
Treas., J. P. Hillegass..... "

Gen. Mgr., Pur. Agt., & Supt.,
J. M. Kurz.....Pennsburg
Springs & reservoir, 500,000 gal.; 5 mi. from center distribution.
Gravity distribution.
Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 36, hose con. 2½-in.; valves, 18 r. & l. h. opening; av. daily cons. 75,000 gal.; serv. con. 225; ord. pres. 66 to 97 lb., fire pres. 97 to 152 lb.
Rates: flat, $5 year, bath $2, closet $2.

PHILADELPHIA, 1,549,008.

MUNICIPAL. Department of Public Works, Bureau of Water. City Hall, Philadelphia.
Director of Department,
Morris L. Cooke.....Philadelphia
Chief of Bureau,
Carlton E. Davis..... "
First Asst. to Chief,
Seth M. Van Loan..... "
Gen. Supt., A. J. Fuller..... "
Asst. Engr. for Distribution,
W. Whitby..... "
Registrar, Joseph A. Carlin.... "

Delaware & Schuylkill River; filtration system: Lower Roxborough filters, sedimentation basin, 13,000,000 gal.; preliminary filters, 11-1,091,000 gal. filtering area 1024 sq. ft. ea.; slow sand filters, 5-12,000,000 gal. filtering area 0.537 acre ea.; clear water basin, 3,000,000 gal.: Upper Roxborough filters, slow sand, 8-20,000,000 gal., filtering area 0.698 acre ea.; clear water basin, 8,000,000 gal.: Belmont filters; sedimentation basins, 2-36,000,000 gal. ea.; preliminary filters, 9-40,000,000 gal.; slow sand filters, 18-67,000,000 gal. filtering area 0.35 acre ea.; clear water basin, 16,500,000 gal.: Torresdale filters; preliminary filters, 120-2,000,000 gal. ea. filtering area 1215 sq. ft. ea.; slow sand filters, 65-240,000,000 gal. filtering area 0.75 acre ea.; clear water basin, 50,000,000 gal.: Queen Lane filters; preliminary filters, 40-1,750,000 gal. ea. filtering area 1280 sq. ft. ea.; slow sand filters, 22-3,180,000 gal. ea.; sedimentation basin, 177,000,000 gal.; clear water basin, 50,000,000 gal.: chemicals, hypochlorite of lime, sulphate of alumina & liquid chlorine.

Boilers, 9 water-tube 300-hp. ea. Heine, 8 internally fired 100-hp., 4 water-tube 500-hp. ea., 26 internally fired 125-hp. ea., 24 internally fired 200-hp. ea., 12 marine 200-hp. ea., 14 water-tube 500 hp. ea. Edge Moor, 12 internally fired 200-hp. ea.; hand & mech. stoking, 9 Murphy & 8 Wetzel; pumps, 2-1,200,000 gal. triplex, 6-40,000,000 gal. ea. centrifugal R. D. W. driven by steam engine, cross comp. Reeves, 1-1,000,000 gal. centrifugal driven by steam turbines De Laval, 1-2,500,000 gal. centrifugal driven by steam turbine De Laval, 2-5,000,000 gal. ea. driven by steam turbine De Laval, 1-triplex Deane driven by elec. motor, 1-40,000,000 gal. centrifugal driven by steam turbines, De Laval, 5-5,000,000 gal. ea. hor. comp. Worth., 1-6,500,000 gal. hor. comp. Worth., 1-10,000,000 gal. hor. comp. Holly, 2-5,000,000 gal. ea. hor. comp. Snow, 2-10,000,000 gal. ea. hor. comp. Bethlehem, 1-17,000,000 gal. comp. Worth., 3-10,000,000 gal. ea. Holly, 4-20,000,000 gal. ea. vert. triple exp. Southwark, 1-10,000,000 gal. comp. vert. Cramp, 1-10,000,000 gal hor. Wetherill, 1-20,000,000 gal. vert. Southwark, 1-15,000,000 gal. vert. Southwark, 12-20,000,000 gal. vert. tri. exp. Holly, high service pumps 27,000,000 gal.; elec. generators, 350 kw. ea. & one 37 kw. d. con. to steam turbine, De Laval; pumping direct & to standpipe.

Pipe, 1754 mi.; meters, 15,930; av. daily cons. 516,000,000 gal.

SPRINGFIELD CONSOLIDATED WATER COMPANY.

Leases Springfield Water Co., North Springfield Water Co., Eddystone Water Co. & Conshohocken Gas & Water Co. Supplies suburbs of Phila., in Buck, Chester, Delaware & Montgomery Cos. as follows: Ardmore, Ashbourne, Bala, Berwyn, Bryn Mawr, Clifton Heights, Cheltenham, Collingdale, Colwyn, Conshohocken, Cynwyd, Darby, Devon, Eddystone, Fernwood, Flourtown, Fort Washington, Glenolden, Haverford, Jenkintown, Lansdowne, Llanerch, Morton, Narberth, Ogontz, Paoli, Plymouth, Prospect Park, Ridley Park, Rosemont, Rock Ledge, Rutledge, Sharon Hill, Swarthmore, Villa Nova, Wayne, Weldon, Willow Grove, Wyncote, Yeadon. (Controlled by American Pipe & Construction Co., 112 No. Broad St., Philadelphia, Pa.)

Pres., Jos. S. Keen, Jr.....Philadelphia
V. Pres. & Treas.,
G. M. Bunting..... "
Asst. Treas. & Sec.,
H. Bayard Hodge..... "
Asst. Sec., W. H. Roth..... "
Gen. Supt., H. P. Keen..... "
Supt., G. A. Nitzky, Jr.,
Springfield & Eddystone Div. Lansdowne
Supt., Enos Hart, Bryn Mawr & Berwyn Div.....Bryn Mawr
Supt., B. Dawson Yeakel, Oak Lane & Conshohocken Div., Oak Lane.....Philadelphia

Pickering & Crum Creek; slow sand & mech. filters.

Boilers, 4 return tubular 100-hp., one water-tube 200-hp., one water-tube 365-hp. one vert. 150-hp., 2 water-tube 270-hp.; gumps, 1-2,000,000 gal. Snow, 1-2,000,000 pal. Wetherill, 1-5,000,000 gal. Wetherill, 1-2,500,000 gal. Wetherill, 3-2,000,000 gal. ea. Wetherill; pumping to reservoir, 20,899,000 gal. & standpipe, 5,001,000 gal. steel & brick.

Pipe, 511 mi. 4 to 20-in.; hyd. 1447; valves, 5345; meters, 14,493; av. daily cons. 8,000,000 gal.; serv. con 23,838; ord. pres. 30 to 270 lb.

AMERICAN PIPE AND CONSTRUCTION COMPANY. Office, 112 North Broad St., Philadelphia, Pa.
Pres. Jos. S. Keen, Jr.....Philadelphia
V. Pres. & Treas.,
Geo. M. Bunting..... "
Sec. & Asst. Treas,
H. Bayard Hodge..... "
Asst. Sec., W. H. Roth..... "
Ch. Engr., J. W. Ledoux..... "
Gen. Supt., H. P. Keen..... "

This company controls through stock ownership the following water supply companies: Baldwin County Water Co., supplies Milledgeville, Ga.; Clayton-Glassboro Water Co., supplies Clayton and township of Glassboro, N. J.; Monmouth County Water Co., supplies suburbs of Asbury Park, N. J.; New York Inter-Urban Water Co., supplies Mt. Vernon and Mamaroneck, N. Y., and vicinity; Norfolk County Water Co., supplies portions of Princess Anne and Norfolk Counties, Va., The Paris Mountain Water Co., supplies Greenville, S. C.; Skaneateles Water Works Co., supplies Skaneateles, N. Y.; Springfield Consolidated Water Co., supplies Conshohoken, Eddystone, Springfield, Bryn Mawr, Berwyn, Oak Lane & Rockledge, suburbs of Philadelphia; Texarkana Water Corporation, supplies Texarkana, Texas and Texarkana, Ark.; Westville and Newbold Water Co., supplies Westville & Newbold, N. J.; Wildwood Water Works Co., supplies Wildwood, N. J., and other resorts on Five Mile Beach,

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INDIANAPOLIS WATER WORKS SECURITIES Co. Office, 1127 Land Title Bldg., Philadelphia, Pa.
Pres., C. H. Geist.....Philadelphia
V. Pres., H. S. Schutt..... "
Sec., C. H. Weak..... "
Treas., H. A. Lang..... "

Controls the Indianapolis Water Co., supplies Indianapolis, Ind.

PHOENIXVILLE, 10,743.

MUNICIPAL.
Chmn. Comrs., E. A. Barkeley. Phœnixville
Supt. & Engr., A. Y. Hesse.... "
Asst. Engr., H. P. Detwiler.... "
Cons. Engrs., Chester & Fleming, Union Bk. Bldg., Pittsburgh
Engr. P'g. Sta., Chas Sirgenson, Phœnixville
Chemist, Jas. R. Evans..... "

Schuylkill River; near center distribution; settling & coagulating basin, 1,000,000 gal.; mech. filters, 6-500,000 gal. ea.; chemical, hypochlorite of lime.

Boilers, 2 water-tube 175-hp. Heine; hand stoking; pumps, 2-3,000,000 gal. vert. tri. exp. duplex Worth., 1-2,000,000 gal. hor. duplex tri. exp. Epping-Carpenter, 1-1,500,000 gal. hor. tri exp. comp. Worth.; pumping to reservoirs, 2-9,000,000 gal.

Pipe, 21 mi. 4 to 12-in. c. i.; hyd. 191, hose con. 2½-in.; meters, 20 National, Neptune, Hersey, Pittsburgh & Worth.; av. daily cons. 1,200,000 gal.; serv. con. 2000; ord. pres. 20 to 80 lb.

PICTURE ROCKS, 576.

SPRING WATER COMPANY.
Pres., C. W. Burrows.....Picture Rocks
Sec., C. W. Longbay..... " "
Treas., I. R. Fleming..... " "

Springs & wells, 10 ft. in diam. 30 ft. deep; ¾ mi. from center distribution; no purification.

Gravity distribution from reservoir, 10 x 12 x 30 ft.; pipe, one mi. 3 in. galv. i.; valves, 2 l. h. opening; serv. con. 50; ord. pres. 150 to 160 lb., fire pres. same.

Rates: flat, $6 year.

PITCAIRN, 4,975.

SUPPLIED BY THE PENNSYLVANIA WATER COMPANY. See Wilkinsburg.

PITTSBURGH, 533,905.

MUNICIPAL.
Supt. & Ch. Engr.,
Chas. A. Finley.....Pittsburgh
Supt. Filtration, C. F. Drake.... "
" Mech. Engr.,
C. O. Daughaday..... "
Supt. Dist., E. E. Lanpher..... "
Ch. Clerk, C. E. Fulton..... "
Chemist, W. U. C. Baton..... "

Allegheny River; 5 mi. from center distribution; settling & coagulating basin, 120,000,000 gal.; slow sand filter, 200,000 gal.; chemicals, hypochlorite of lime.

Boilers, 96 water & fire-tube 19,000 hp.; mech. stoking; pumps, 49-560,000,000 gal.; pumping to reservoir, 7-262,000,000 gal. & standpipes, 5 steel.

Pipe, 672 mi. 4 to over 30-in. c. i. & steel; hyd. 6814, hose con. 2½ & 3 in. various; valves, r. h. thd. various; meters, 13,000; av. daily cons. 320,000,000 gal.; serv. con. 85000; ord. pres., 15 to 115 lb.

12TH, 13TH, 14TH, WARDS supplied by the Pennsylvania Water Company. See Wilkinsburg.

PITTSTON, 16,267.

SUPPLIED BY THE SPRING BROOK WATER SUPPLY Co. See Wilkes-Barre.

PLEASANTVILLE, *525.

MUNICIPAL.
Chmn. Comrs., H. C. Zeamer, Pleasantville
Supt., F. L. Burgwald..... "

Wells, 6 tubular 8-in. 125 to 300 ft. deep; ½ mi. from center business section; no purification.

Pump, 1-100,000 gal. vert. triplex Titusville 1908 belted to gas engine, 20-hp. Titusville 1908; buy gas from United Natural Gas Co.; pumping to elev. tank (1908) 40,000 gal. steel, Struthers Wells Co.

Pipe, 4 mi. 2 to 6-in. c. & galv. i.; hyd. 29, hose con. 2½-in. Ludlow; valves, 39 l. h. opening Ludlow; meters, none; serv. con. 150; ord. pres. 45 to 85 lb., fire pres. same.

Rates: flat, $13 year, bath $3, closet $3.

PLYMOUTH, 16,996.

PARTLY SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

PARTLY SUPPLIED BY THE SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

PORTAGE, 2,954.

PORTAGE WATER CO. Office, Johnstown.
Pres., John E. Evans.....Ebensburg
Sec., Treas., Gen. Mgr. & Pur. Agt.,
Andrew B. Crichton.....Johnstown
Supt., Frank K. Weaver.....Portage

Impounding reservoirs on springs & mountain streams, 2-11,500,000 gal.; 4.5 mi. from center business section; gravity distribution.

Pipe, 9 mi. 3 to 10-in. c. i.; hyd. 23, hose con. 2½ & 4-in. R. D. W.; valves, 12 r. & l. h. thd. R. D. W.; av. daily cons. 650,000 gal.; serv. con. 831; ord. pres. 70 to 120 lb., fire pres. same.

Rates: flat, $7.50 year, bath $2.50, closet $2.50; meter, min. $2.25 quarter, 40c. 1000 gal. max., 6c. min.

PORT ALLEGHENY, 1,972.

PORT ALLEGHENY WATER CO.
Pres., Gen. Mgr. & Pur. Agt.,
S. W. Smith.....Port Allegheny
Sec., R. L. Skinner..... " "
Treas., E. C. Smith..... " "

Impounding reservoir on Skinner Creek, 3-2,500,000 gal. & wells, 4 tubular 8 & 10-in. 80 ft. deep; near center distribution; chemical, hypochlorite of lime.

Pumps, 1-460,000 gal. vert. tri. Rumsey 1910 driven by gas engine, 40-hp. Du Bois 1910; pumping to reservoirs, above.

Pipe, 11.5 mi. 4 to 8-in. c. i.; hyd. 54, hose con. 2½-in. Ludlow; valves, 25 Ludlow; meters, 25 Standard; av. daily cons. 4,000,000 gal.; serv. con. 450; ord. pres. 60 to 95 lb., fire pres. same.

Rates: flat, $4.75 quarter.

PORT CARBON, 2,678.

SUPPLIED BY THE POTTSVILLE WATER COMPANY. See Pottsville.

PORT MATILDA, 450.

PORT MATILDA WATER COMPANY.
Pres., J. M. Williams.....Port Matilda
V. Pres. & Treas.,
W. E. Williams..... " "
Sec. & Pur. Agt., W. S. Crain. " "
Gen. Mgr., Geo. Harshberger. " "

Springs & wells, 30 ft. in diam. 5 ft. deep; near center distribution; reservoir, 25,000 gal.

Gravity distribution; pipe, 1.5 mi. 1½ to 6-in. c. & galv. i.; valves, 7; av. daily cons. 20,000 gal.; serv. con. 41; ord. pres. 85 to 90 lb.

Rates: flat, 60c. mo., bath & closet 25c.

PORT ROYAL, 535.

PORT ROYAL WATER SUPPLY CO.
Pres., J. N. Groninger.....Port Royal
Sec., C. D. Frankhouse..... " "
Treas. & Gen. Mgr.,
W. R. Wharton..... " "

Springs, 3.2 mi. from center distribution; gravity distribution from reservoir, 102,000 gal.

Pipe, 3.5 mi. 6-in. c. i.; hyd. 17, hose con. 2½-in. R. D. W.; valves, 13 l. h. opening; av. daily cons. 10,000 gal.; serv. con. 160; ord. pres. 112 lb., fire pres. same.

Rates: flat, $13 year including bath & closet.

POTTSTOWN, 15,559.

POTTSTOWN GAS & WATER CO.
Pres., John W. Storb.....Pottstown
Treas., J. H. Baer..... "
Gen. Mgr., M. Sloanaker..... "

POTTSVILLE, 20,326.

POTTSVILLE WATER CO. Supplies St. Clair, Port Carbon, Palo Alto & Mt. Carbon.
Gen. Mgr., W. D. Pollard.....Pottsville

Impounding reservoirs on mountain stream, 2-800,000,000 gal.; 8 mi. from center distribution; no purification.

Boilers, 2 150-hp. B. & W.; hand stoking; pumps, 1-1,500,000 gal. Jeanesville; pumping to reservoir, 500,000 gal.

Rates: flat, $6 year, bath $4, closet $4; meter, 15c. 100 cu. ft. max., 6c. min.

PROSPECT PARK, 1,655.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

PUNXSUTAWNEY, 9,058.

PUNXSUTAWNEY WATER CO. Controlled by the United Water & Guarantee Co., Harrisburg.
Dist. Mgr., R. B. Kendig....Punxsutawney
Supt., Charles E. Ratz..... "

Clover Run & Mahoning creek; gravity distribution & pumping.

QUAKERTOWN, 3,801.

QUAKERTOWN WATER CO.
Pres., Wm. D. Freed.....Richlandtown
V. Pres., J. S. Harley .....Quakertown
Sec., C. W. Freed..... "
Treas., Gen. Mgr. & Pur. Agt.,
A. B. Wolp..... "
Supt., J. McDonnell..... "
Engr., P'g. Sta., H. M. Loux. "

Tohickon Creek & wells, 2 artesian 8-in. 165 & 150 ft. deep; chemical, hypochlorite of lime.

Boilers, hor. tubular 40-hp. 90 lb. Nagel 1895, hor. tubular 75-hp. 80 lb. Farquhar 1903, hor. tubular 125-hp. 125 lb. Coatesville 1914; pumps, 1-450,000 gal. hor. comp. d. act. Miller 1895, 1-1,600,000 gal. hor. comp. d. act. Platt 1903; pumping to reservoir, 1,400,000 gal.

Pipe, 13 mi. 4 to 10-in. c. i.; hyd. 66, hose con. 2½-in. R. D. W. & Darling; valves,

50 r. h. opening Kennedy; av. daily cons. 400,000 gal.; serv. con. 500; ord. pres. 35 to 53 lb., fire pres. 35 to 100 lb.

Rates: flat, $6 year, bath $3, closet $4.

RANKIN, 6,042.

SUPPLIED BY THE PENNSYLVANIA WATER COMPANY. See Wilkinsburg.

READING, 96,171.

MUNICIPAL.

Emil L. Nuebling.....Reading
Asst. Engr., Harry K. Brown..... "
Supt. Pub. Property,
B. Frank Ruth..... "
Engr. P'g. Sta., Chas. C. Buckwalte... "
Chemist, B. W. Loeb..... "

Impounding reservoirs on springs & creeks, 3-990,000 gal.; 1.5 to 7 mi. from center distribution; slow sand filters, 19,000,000 gal.; chemical, hypochlorite of lime.

Boilers, 4 water-tube 175-hp. ea. Stirling; mech. stoking, Wilkinson; pumps, 1-5,000,000 gal. Worth., 2-10,000,000 gal. Worth., 3-15,000,000 gal. Allis-C., 2-750,000 gal. triplex Deane driven by gas engines, 2 50-hp. F. M.; gas producers 2 75-hp.; pumping direct & to reservoirs.

Pipe, 114.5 mi. 4 to over 30-in. c. i.; hyd. 1000, hose con. 2½ & 4½ in. various; valves, 3023 r. & l. h. thd. various; meters, 4664 various; av. daily cons. 14,202,000 gal.; serv. con. 23,035; ord. pres. 10 to 140 lb. fire pres. same.

Rates: meter, min. charge 25c. mo., 4c. 100 cu. ft.

RED HILL, 664.

SUPPLIED BY PENNSBURG WATER CO. See Pennsburg.

RENDHAM, 486.

SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

RENOVO, 4,061.

MUNICIPAL.

Chmn. Comrs., H. J. Bennett.....Renovo
Comr., G. H. Meyers..... "
" Wm. Doebler..... "
Sec., H. A. McGarvey..... "
Supt., F. E. Colony..... "

Springs & reservoir, 2,500,000 gal.; 4 mi. from center business section; gravity distribution.

Hyd., 34, hose con. 4-in.; valves, 20 l. h. opening; av. daily cons. 1,000,000 gal.; serv. con. 1200; ord. pres. 52 to 65 lb., fire pres. 85 lb.

Rates: flat, $5 year.

RIDGWAY, 5,408.

MUNICIPAL.

Supt., F. W. Ward.....Ridgway

Mill Creek; pumping.

RIDLEY PARK, 1,761.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

RIMERSBURG, 885.

MUNICIPAL.

Chmn. Comrs., J. W. Arner....Rimersburg
Comr., A. P. Wilson..... "
" W. A. Steltzer..... "
Sec., W. W. Bosworth..... "

Wells, 10-in. 80 to 150 ft. deep; no purification; pumps driven by gasoline engines, 28-hp.; pumping to elev. tank (1908) 60,000 gal. wood.

Pipe, 1.5 mi. 4 & 6-in. c. i.; hyd. 18, hose con. 2¾-in.; valves, 5; meters, 62 Hersey & Neptune; av. daily cons. 330,000 gal.; serv. con. 61.

Rates: meter, min. charge $1 mo. 1000 gal., 75c. 1000 gal.

RITTERSVILLE, 265.

SUPPLIED BY THE BETHLEHEM CITY WATER CO. See So. Bethlehem.

ROARING SPRING, 1,903.

MUNICIPAL.

Vil. Pres., John Johnson....Roaring Spring
Supt., J. W. Curfman..... " "
Cons. Engr., J. L. Henry....Hollidaysburg

Springs & reservoir, 585,000 gal.; 3 mi. from center business section; no purification; gravity distribution.

Pipe, 9.5 mi. 2 to 5-in. c. i.; hyd. 41, hose con. 2½-in. R. D. W.; valves, 31 R. D. W.; meters, 2 Neptune; av. daily cons. 65,000 gal.; serv. con. 500; ord. pres. 70 lb., fire pres. 120 lb.

ROBESONIA, 700.

SUPPLIED BY WOMELSDORF CONSOLIDATED WATER CO. See Womelsdorf.

ROCKLEDGE, 879.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

ROSEMONT, 859.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

ROULETTE, 829.

ROULETTE WATER CO.

Pres., Gen. Mgr. & Pur. Agt.,
Milo Lyman.....Roulette
V. Pres., A. Jones.....Coudersport
Sec. & Treas., R. R. Lewis.... "

Springs; gravity distribution; pipe, 6 mi. 2 & 4-in.; hyd. one, hose con. 2-in.; valves, 12 l. h. opening; meters, none.

Rates: flat, $8 year, bath $3, closet $3.

ROYALTON, 1,033.

SUPPLIED BY MIDDLETON AND SWATARA WATER COMPANY. See Middleton.

RUTLEDGE, 523.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

ST. CLAIR, 6,455.

SUPPLIED BY THE POTTSVILLE WATER COMPANY. See Pottsville.

ST. MARYS, 6,346.

ST. MARY'S WATER CO.

Pres., Geo. C. Simons.....St. Marys
V. Pres., Wm. E. Hall.....Ridgway
Sec., Eben J. Russ.....St. Marys
Treas., Jos. M. Schaefer..... "
Gen. Mgr. & Pur. Agt.,
Philip Dixon..... "

Springs & wells, 18 artesian 6-in. 90 to 300 ft. deep; 2 to 6 mi. from center business section; reservoirs, 2-1,400,000 gal.

Boiler, 30-hp. 25 lb. Oil City 1890; gas engines, 4 60 to 150-hp. Struthers-Wells 1890–1908; pumping by air lifts & air compressors, 3 40-hp.; pumping to reservoirs above.

Hyd. 58, hose con. 2½-in.; valves, 30; av. daily cons. 1,300,000 gal.; ord. pres. 30 to 85 lb.

Rates: flat, $6 year, bath $4, closet $3; meter, 35c. 1000 gal. max., 25c. min.

ST. PETERSBURG, *475.

MUNICIPAL WATER COMMISSION.

Pres. Comrs., Jos. Kirchner, St. Petersburg
Comr., Lewis C. Collner..... " "
" Joseph Conver..... " "
City Clerk, Leland Magee... " "
Engr. P'g. Sta., E. E. Sheefer " "

Springs & wells, 3 artesian 8-in. 90 ft. deep; 1.5 mi. from center business section; reservoirs, 2-84,000 gal.

Pump, one vert. triplex 1914 belted to gas engines, 2 15-hp. ea. Bessemer 1910 & 1914; pumping to reservoir, 80,000 gal. & to elev. tanks, 2 (1890, 1910) 100,000 gal. wood.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 50, hose con. 2-in.; valves, r. & l. h. thd.; meters, none; ord. pres. 45 to 60 lb., fire pres. 90 to 125 lb.

Rates: flat, $1.25 mo. including bath & closet.

SAYRE, 6,426.

SAYRE WATER CO.

Pres., W. A. Wilbur.....Sayre
Treas., E. P. Wilbur, Jr..... "
Gen. Mgr., W. T. Goodnow..... "
Supt., C. E. Loetzer..... "
Chemist, Dr. W. E. Lundblad..... "

Susquehanna River; ½ mi. from center distribution; mech. filters 2,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 3 hor. Keeler; hand stoking; pumps, 1-5,000,000 gal. Worth., 1-2,000,000 gal. Worth.; pumping direct & to reservoir, 2-3,000,000 gal.

Hyd. 108, hose con. 2½-in. R. D. W. & Loetzer; av. daily cons. 1,500,000 gal.; serv. con. 2500; ord. pres. 90 lb., fire pres. same.

Rates: flat, min. 60c. mo.; meter, min. charge $2 quarter.

SCOTTSDALE, 5,456.

CITIZENS WATER SUPPLY CO. OF SCOTTSDALE. Office, Commercial Trust Bldg., Philadelphia.

Gen. Supt., G. S. Cheyney....Philadelphia

Green Lick, Mountz, Spruce & Butler Runs; gravity distribution.

SCRANTON, 129,867.

SCRANTON GAS & WATER COMPANY. Office, 115 Wyoming Ave. Supplies Archbald, Blakely, Carbondale, Dickson, Dunmore, Forest City, Hyde Park, Jermyn, Jessup, Mayfield, Olyphant, Peckville, Vandling & Winton.

Pres., W. W. Scranton.....Scranton
V. Pres., Worthington Scranton.... "
Sec. & Treas., Jos. Jeffrey..... "
Supt., E. M. Stack..... "

Impounding reservoirs on Lehigh River, Roaring Brook, Stafford Meadow Brook, Leggetts Creek & Little Roaring Brook, 12-5,872,000,000 gal.; gravity distribution from reservoirs, 6-3,072,782,000 gal.

Pipe, 197.4 mi. 4 to 36-in. c. i.; hyd. 776, hose con. 2½ & 4-in.; meters, 19,000; av. daily cons. 18,090,000 gal.; serv. con. 19,000; ord. pres. 21 to 157 lb.

SEELYVILLE, 524.

SUPPLIED BY THE HONESDALE CONSOLIDATED WATER CO. See Honesdale.

SELLERSVILLE, 1,573.

MUNICIPAL.

Pres. Council, Wm. S. Schlicher.Sellersville
Councilman, W. F. Cressman.... "
" J. A. Kooker..... "
Sec., H. J. Zane..... "
Supt., Jas. F. Cressman..... "

Springs & wells, 2 tubular 10-in. 702 & 1014 ft. deep; 3 mi. from center distribution.

Gravity distribution from reservoirs, 2-6,000,000 gal.

Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 36, hose con. 3-in.; meters, 5 Buffalo; av. daily cons. 125,000 gal. 95%; serv. con. 400; ord. pres. 65 to 95 lb., fire pres. same.

Rates; flat, $2 year, bath $2.50, closet $2; meter, min. charge 60c. year, 1000 cu. ft., $1 1000 cu. ft.

SEWICKLEY, 4,479.

MUNICIPAL.

Chmn. Comrs., E. B. Taylor.....Sewickley
Comr., Edw. Gray..... "
" Mr. McFarland..... "
" John Hurst..... "
" A. C. Dryman..... "
" J. L. Stuart..... "
Supt., J. S. Besterman.....Glen Osborne
Engr. P'g. Sta., Geo. Gibson... " "
Chemist, Pittsburgh Laboratory, Pittsburgh

Ohio River; ½ mi. from center business section.

Boiler, hor. tubular 80-hp. 80 lb. Oil City 1880; gas fuel; pumps, 1-1,000,000 gal. hor. comp. d. act. Hall 1880, 1-2,000,000 gal. vert. tri. exp. Platt 1902; gas engines, three 35, 60 & 200-hp. Struthers-Wells 1909, 1900 & 1902; pumping to reservoirs, 2-7,000,000 gal. & standpipe (1900) 258,000 gal.

Pipe, 22.5 mi. 3 to 16-in. c. i.; hyd. 130, hose con. 2-in. Ludlow; valves, 240 l. h. opening Ludlow; meters, 100 Pittsburgh & National; av. daily cons. 1,172,000 gal.; serv. con. 1213; ord. pres. 35 to 48 lb., fire pres. 60 to 90 lb.

Rates: flat, $6 year, bath $2, closet $2; meter, min. charge $12 year, 30c. 1000 gal. max., 12.5c. min.

SHAMOKIN, 19,588.

THE ROARING CREEK WATER COMPANY. Office, 204 E. Sunbury St., Shamokin.
Pres., Gen. Mgr. & Pur. Agt.,
C. Q. McWilliams.....Shamokin
V. Pres. & Treas.,
W. C. McConnell..... "
Sec., B. W. Haupt..... "

Springs & impounding reservoirs on south branch Roaring Creek, 7-609,000,000 gal.; 10 mi. from center distribution.

Gravity distribution from reservoirs & elev. tanks, 50,000 gal.; pipe, 62 mi. 2 to 30-in. c. i.; hyd. 130, hose con. 4 & 6-in. Ludlow & Darling; valves, 422 r. h. opening Ludlow & Darling; meters, 55 Hersey & National; av. daily cons. 5,000,000 gal.; serv. con. 4200; ord. pres. 45 to 150 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $3; meter, 26⅔c. 1000 gal. max., 5⅓c. min.

SHARON HILL, 1,401.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

SHARPSBURG, 8,153.

MUNICIPAL.
Supt., N. C. Wetzel.....Sharpsburg

Wells, 10 tubular 8-in. 60 ft. deep; near center distribution.

Boilers, 4 water-tube 500-hp. Heine & Geary; hand stoking; pumps, 2-2,000,000 gal. Wilson-Snyder; pumping direct.

Hyd. 76, hose con. 4-in. Ludlow; meters, 65 various; av. daily cons. 1,500,000 gal.; ord. pres. 70 to 85 lb., fire pres. 100 lb.

Rates: meter, 30c. 1000 gal.

SHARPSVILLE, 3,634.

MUNICIPAL.
Comr., F. W. King.....Sharpsville
" Frank Miller..... "
" J. W. Jackson..... "
Sec., Wm. A. Graber..... "
Supt., C. Billig..... "
Engr. P'g. Sta., W. D. Morrison. "
Chemist, State Board of Health, Harrisburg

Shenango River; no purification.

Boilers, 2 hor. 75-hp. ea. 1896; hand stoking; pumps, 1-100,000 gal. hor. tri. exp. d. act. Snyder-Hughes 1896; pumping direct & to standpipe (1896).

Hyd. 90, hose con. 2½-in.; meters, 600 Pittsburgh; serv. con. 600; ord. pres. 45 to 115 lb., fire pres. same.

Rates: all meter, min. charge $1.50 quarter 8000 gal., 20c. 1000 gal.

SHEFFIELD, 1,550.

SHEFFIELD WATER COMPANY. Office, Ridgway.
Pres., W. E. Henderson.....Sheffield
Sec. & Treas., M. K. Williams.....Ridgway
V. Pres., W. E. Rice.....Warren
Gen. Mgr., A. M. Jaycox.....Sheffield
Cons. Engr., H. B. Norton.....Ridgway

Springs & Deer Lick Run; 2 mi. from center business section; impounding reservoir, 3,000,000 gal.; no purification; gravity distribution.

Pipe, 7.34 mi. one to 8-in. c. & galv. i.; hyd. 46, hose con. 2½-in.; meters, 226 National; serv. con. 299; ord. pres. 70 lb., fire pres. same.

Rates: flat, $8 year, bath $4, closet $4; meter, 40c. 1000 gal. max., 10c. min.

SHENANDOAH, 25,774.

MUNICIPAL. Citizens Water Co.
Supt., Harry Muldoon.....Shenandoah

Davis & Fowler Runs; gravity distribution & pumping.

SHIPPENSBURG, 3,457.

MUNICIPAL.
Supt., B. F. Landis.....Shippensburg

Mountain springs & impounding reservoirs, 2-3,000,000 gal.; gravity distribution.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 75 Ludlow; valves, 50 l. h. opening Ludlow; meters, 12 Neptune, Hersey & Worth.; av. daily cons. 500,000 gal.; serv. con. 1200; ord. pres. 40 to 65 lb., fire pres. 60 to 70 lb.

Rates; meter, 12c. 1000 gal. max., 4.5c. min.

SHREWSBURY, *275.

MUNICIPAL.
Comr., S. F. Eckenrode.....Shrewsbury
" J. W. Blouse..... "
" G. W. Sechrist..... "
Sec., E. Storms..... "
Supt. & Engr., P'g. Sta.,
J. J. Blasser..... "
Chemists, State Laboratories,.....Harrisburg

Springs & artesian wells, 2; ¼ mi. from center business section; settling basins, 2.

Hydraulic rams, 2 Niagara 1911; pumping to standpipe (1911) 90,000 gal.

Pipe, 1.5 mi. 2 to 10-in. c. i. & wood; hyd. 17, hose con. 2½-in.; valves, 12 Darling; meters, none; av. daily cons. 3500 gal.; serv. con. 85; ord. pres. 86 lb., fire pres. 200 lb.

Rates: flat, $6 year, bath $5, closet $2.

SINKING SPRING, *4,000.

SINKING SPRING WATER CO. Supplies Spring Mount & Woodlawn.
Pres., Geo. G. Ritter.....Sinking Spring
Sec. & Treas.,
Henry S. Clausen..... " "
Supt., D. H. Keiser..... " "

Springs; one mi. from center distribution; av. daily cons. 200,000 gal.; serv. con.

400; ord. pres. 40 to 125 lb., fire pres. same.

SLIPPERY ROCK, 870.
MUNICIPAL.
Pres. Comrs.,
C. R. Humphrey.....Slippery Rock
Comr., J. E. Stoops..... " "
" W. G. Kissick..... " "
Sec., S. J. Taylor..... " "
Supt., L. L. McCullough.... " "
Wells, 2 tubular 6-in. 285 & 350 ft. deep; ½ mi. from center business section; pumps driven by gas engines 15-hp. ea. Bessemer 1906; pumping to elev. tanks, 2 (1909) 73,000 gal.
Hyd. 33, hose con. 4-in. Rensselaer; valves, 14 r. h. opening Rensselaer; meters, 244 Pittsburgh; av. daily cons. 12,800 gal.
Rates: meter, min. charge 50c. mo. 100 gal.

SMETHPORT, 1,817.
SMETHPORT WATER CO.
Pres., Sheridan Gorton.....Smethport
Sec., Gen. Mgr. & Pur. Agt.,
W. P. Walsh..... "
Springs & 3 artesian wells, 8-in. 200 ft. deep; 2.5 mi. from center business section; no purification.
Boiler, hor. 20-hp. 100 lb. Farrer & Treft 1908; hand stoking; pumps, deep well Boviard 1909; pumping to reservoirs, 2-2,000,000 gal.
Pipe, 2.5 mi. 6-in. c. i.; hyd. 36, hose con. 2½-in. Kennedy; valves, 51 r. h. opening Darling; av. daily cons. 180,000 gal.; serv. con. 350; ord. pres. 60 lb.
Rates: flat, $15 year including bath & closet.

SOMERSET, 2,612.
MUNICIPAL.
Pres. of Council, C. W. Walker...Somerset
Supt., C. E. Pile..... "
Engr. P'g. Sta., Geo. E. Geisler... "
Wells, 3 tubular 10-in. 120 to 142 ft. deep; ½ mi. from center business section.
Boilers, 2 return tubular 70-hp. ea. 140 lb. Titusville 1911; hand stoking; pumps, 1-720,000 gal. hor. comp. c. & f. wh. Platt 1911, 1-288,000 gal. hor. s. d. act. Epping-Carpenter 1911; pumping to reservoirs, 2-1,000,000 gal.
Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 80, hose con. 2½-in. Ludlow; valves, 25 l. h. opening Ludlow; meters, 300 National & Pittsburgh; av. daily cons. 246,500 gal.; serv. con. 700; ord. pres. 70 to 102 lb., fire pres. same.
Rates: flat $3.25 quarter including bath & closet; meter, min. charge $1.50 quarter 2750 gal., 35.25c. 1000 gal. max., 20c. min.

SOUTH BETHLEHEM, 19,973.
BETHLEHEM CITY WATER CO. Supplies Fountain Hill & Rittersville.
Supt., Harvey M. Uberroth.So. Bethlehem
Lehigh River; pumping.

SOUTH HEIGHTS, *300.
THE CRESCENT BEACH WATER CO.
Pres., E. E. Langham.....South Heights
V. Pres., S. B. Langham.....Winton
Sec., L. L. Langham.....South Heights
Gen. Mgr., G. W. Cain..... " "
Springs & wells, 2 tubular 8-in. 70 ft. deep; near center business section; res ervoirs, 2-30,000 gal.; no purification.
Pumps, 2-100,000 gal. ea. vert. s. Goulds 1914 belted to gas engines, 6-hp. Bessemer 1904 & 12-hp. Reid 1914; pumping to tanks, 3-30,000 gal. wood.
Pipe, one mi. 2-in. iron; hyd. 5 hose con. 2-in.; av. daily cons. 20,000 gal., serv. con. 65; ord. pres. 40 lb., fire pres. same.
Rates: flat, $1 mo.

SOUTH PITTSBURGH, *150,000.
SOUTH PITTSBURGH WATER CO. Controlled by American Water Works & Electric Co., 50 Broad Street, New York, N. Y. Supplies Carnegie, Crafton, Greentree, Hays, Heidelberg, Ingram, Knoxville & West Homestead.
Pres., A. M. Lynn.....New York, N. Y.
V. Pres., G. E. Hoffmaster. " " "
Treas. & Supt., E. L. Keene,
South Pittsburgh
Sec., M. F. Riley.....New York, N. Y.
Chf. Engr., G. W. Biggs, Jr. " " "
Chemist, S. T. Weaver...South Pittsburgh
Monongahela River; 3.5 mi. from center business section; settling & coagulating basins, 84 x 151 x 310 ft.; mechanical filters, 14,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina, sulphate of iron & lime.
Boilers, 11 water-tube 2420-hp. McNaull, Heine & B. & W.; pumps, 4-19,000,000 gal. Worth., 2 Allis & Heisler, 3-15,000,000 gal. R. D. W.; pumping & direct to reservoir, 190 ft. diam. 16 ft. deep & standpipe, steel.
Pipe, 220 mi. 4 to 36-in. c. i.; hyd. 782, hose con. 2½-in. Ludlow; meters, 14,095 various; av. daily cons. 7,700,000 gal.; serv. con. 16,687; ord. pres. 170 lb.

SOUTH RENOVO, 805.
MUNICIPAL.
Vil. Pres., D. Cross.....South Renovo
Comr., L. O. Weaver..... " "
Impounding reservoir on mountain stream, 500,000 gal.; 2.5 mi. from center business section; gravity distribution.
Pipe, 4.5 mi. 6 to 10-in. c. i.; hyd. 10, hose con. 2½ & 3-in.; valves, 9 r. h. opening; serv. con. 260; ord. pres. 85 lb., fire pres. same.
Rates: flat, $1 mo.

SOUTH WILLIAMSPORT, 2,734.
SUPPLIED BY THE WILLIAMSPORT WATER COMPANY. See Williamsport.

SPRING GARDEN, 1,100.
SUPPLIED BY THE YORK WATER CO. See York.

SPRING GROVE, 1,152.
SPRING GROVE WATER CO.

Prof., W. L. Glatfelter.....Spring Grove
Inpounding reservoir on Codorus Creek, 750,000 gal.; mechanical filters, 5,000,000 gal. Warren & Norwood.
Pumps, one hor. comp. duplex d. act. Deane 1904, 1-1,440,000 gal. hor. duplex Snow 1900; pumping direct.
Rates: flat, $6 year, bath $3, closet $3; meter, 30c. 1000 gal. max., 8.5 min.

SPRING MOUNT, 279.
SUPPLIED BY THE SINKING SPRING WATER CO. See Sinking Spring.

SPRINGDALE, 1,999.
SUPPLIED BY THE ALLEGHENY VALLEY WATER CO. See Tarentum.

STATE COLLEGE, 1,425.
UNIVERSITY WATER CO.
Supt., R. S. Fridy.....State College
Mountain stream; 6 mi. from center distribution.
Boilers, 6 water-tube 1400-hp. B. & W. & Keeler; mech. stoking; Jones & Taylor; pumps, 1-432,000 gal. Worth; pumping to reservoir, 50 x 75 x 18 ft.
Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 18, hose con. 2-in.; av. daily cons. 400,000 gal.; serv. con. 300; ord. pres. 60 to 100 lb., fire pres. 80 to 120 lb.

STEELTON, 14,246.
MUNICIPAL.
Pres. Comrs., Geo. H. Roberts.....Steelton
Comr., Wm. A. Keister..... "
" W. E. Chick..... "
Sec., Chas. P. Feidt..... "
Supt., O. P. Baskins..... "
Susquehanna River; slow sand filters, 3-4,500,000 gal. filtering area 0.39 acres; mechanical filters, 3-4,500,000 gal. filtering area .039 acres; chemicals, sulphate of alumina & hypochlorite of lime.
Boilers, 3 vert. 95 lb.; hand stoking; pumps, 2 Deane & one Heisler, 2 centrifugal; pumping to reservoir.
Pipe, 6 to 12-in. c. i. & wood; hyd. hose con. 2½-in.
Rates: meter, min. charge $8 year 40,000 gal., 20c. 1000 gal.

STONEBORO, 1,074.
MUNICIPAL.
Comr., Arthur Fisher.....Stoneboro
" W. J. Canon..... "
" G. W. Proud..... "
Town Clerk, Ralph Hanford.... "
Springs & reservoir, 350,000 gal.; 1.5 & 2.5 mi. from center distribution; no purification.
Gravity distribution.
Pipe, 2.5 mi. 6-in. c. i.; hyd. 16, hose con. 2½-in. Darling; valves, r. h. opening; serv. con. 178; ord. pres. 30 to 65 lb.

STRASBURG, 825.
MUNICIPAL.
Boro Pres., Milton R. Rouk.....Strasburg
Supt., E. D. Miller..... "
Springs; 4 mi. from center distribution; settling basin, 2-5,000,000 gal.; no purification.
Gravity distribution from reservoir, 250,000 gal.; pipe, 7 mi. 4 to 8-in. c. i.; hyd. 32, hose con. 2½-in. Eddy & Darling; valves, 30 l. h. opening Eddy & Darling; meters, 6 Pittsburgh & Thomson; av. daily cons. 16,000 gal., 80%; serv. con. 240; ord. pres. 50 to 60 lb., fire pres. same.
Rates: flat, $5 year, bath $3, closet $2; meters, min. charge, $10 year 100,000 gal., 10c. 1000 gal.

STROUDSBURG, 4,379.
STROUDSBURG WATER SUPPLY CO.
Pres., B. D. Jacoby.....Stroudsburg
V. Pres., John B. Price.....Hazleton
Sec. & Gen. Mgr.,
A. A. Holbrook.....Stroudsburg
Treas., A. M. Palmer..... "
Supt., T. C. Brown..... "
Springs & impounding reservoir, 25,000,000 gal.; 2.5 mi. from center distribution.
Boiler, locomotive 100-hp. 100 lb. International 1910; pumps, 1-1,000,000 gal. comp. d. act. Scranton 1910 driven by gasoline engines, 50-hp. Brown, 1-1,000,000 gal. vert. triplex Deane 1906 driven by waterturbine; pumping to reservoir, above.
Pipe, 14 mi. 4 to 12-in. c. i.; av. daily cons. 1,000,000 gal.; serv. con. 1000; ord. pres. 50 lb., fire pres. same.
Rates: flat, modern house $12 year; meter, min. charge $5 quarter, $1 1000 cu. ft.

SUMMERVILLE, *800.
PEOPLES WATER CO.
Supt., E. E. Carrier.....Summerville
V. Pres., Maurice Smith..... "
Sec., Treas. Gen. Mgr. & Pur. Agt.,
John Beach.....Summerville
Springs & wells, 6-in. 335 ft. deep; gravity distribution from reservoir, 50,000 gal. & to elev. tanks, 7 (1903) 5,000 gal.
Pipe, 2 mi.; hyd. 6, hose con. 2½-in.; valves, 10 l. h. opening; meters, none; ord. pres. 65 lb., fire pres. 70 lb.
Rates: flat, $1.50 including bath & closet.

SUMMIT HILL, 4,209.
SUMMIT HILL WATER CO.
Pres., John E. McCready.....Summit Hill
V. Pres., Robert Ross..... " "
Sec., Gen. Mgr. & Pur. Agt.,
E. E. Scott..... " "
Engr. P'g. Sta.,
W. H. Redline.....Bloomingdale
Springs & artesian well, 8-in. 350 ft. deep; 0.7 mi. from center business section; reservoirs, 600,000 gal.; no purification.
Boilers, 2 fire tube 150-hp. ea. 150 lb. Erie 1876-1890, one fire tube 150-hp. ea. 150 lb. Erie 1905; pumps, 2-432,000 gal. hor. s. d. act. Erie 1876 & 1890; air compressor, Ingersoll-Rand 1908 steam driven; pumping to reservoir, 300,000 gal.
Pipe, 5 mi. 3 to 8-in.; hyd. 21, hose con.

2½-in. Tamaqua; valves, 30 l. h. opening Kennedy; meters, 30 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 600; ord. pres. 20 to 25 lb., fire pres. same.

Rates: flat, $15 year including bath & closet; meter, 25c. 1000 gal.

SWARTHMORE, 1,899.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

SWISSVALE, 7,381.

SUPPLIED BY THE PENNSYLVANIA WATER COMPANY. See Wilkinsburg.

TARENTUM, 7,414.

ALLEGHENY VALLEY WATER CO. Supplies Brackenridge, Cheswick, Creighton & Springdale.

Pres., H. M. Meberrath.....Tarentum
Sec. & Treas. & Supt., Wm. Hodge "

Allegheny River; gravity distribution.

TELFORD, 871.

TELFORD WATER CO.

Pres., R. R. Freed.....Telford
V. Pres., Irwin G. Lukens.....North Wales
Sec., H. Z. Wampke.....Telford
Treas., C. H. Price..... "

Wells, 10-in. 250 ft. deep.

Pumps, 1-240,000 gal. vert. F. M. 1907 belted to gasoline engines; pumping to standpipe (1911) 62,500 gal.

Pipe, 4.5 mi. 4 to 8 in. c. i.; hyd. 28, hose con. 2½-in. R. D. W.; meters, 100; ord. pres. 54 to 68 lb.

THOMPSONTOWN, 293.

THOMPSONTOWN WATER CO.

Owner & Supt.,
M. E. Schlegel.....Thompsontown

Springs & wells, 2 tubular 6-in. 75-ft. deep; 1.25 mi. from center distribution; reservoir, 55,000 gal.; no purification.

Pump, 1-25,000 gal. hor. duplex Goulds 1912 belted to gasoline engines, 3-hp. Domestic 1912; pumping to reservoir, 60,000 gal.

Pipe, 2.5 mi. 4 & 5-in. wood; hyd. 12, hose con. 2½-in. Darling; valves, 50 r. h. opening; meters, none; av. daily con. 20,000 gal.; ord. pres. 80 to 85 lb., fire pres. same.

Rates: flat, $6 year.

TIONESTA, *1,000.

TIONESTA WATER SUPPLY CO.

Pres., T. F. Ritchey.....Tionesta
V. Pres., C. A. Randal..... "
Sec., S. D. Irwin..... "
Treas., J. H. Kelly..... "
Gen. Mgr. & Pur. Agt., J. R. Clark. "

Springs & reservoir, 150,000 gal.; gravity distribution.

Pipe, 3 mi. 6-in. c. i.; hyd. 17, hose con. 2½-in. R. D. W.; valves, 10 l. h. opening R. D. W.; meters, 6 Pittsburgh; serv. con. 225; ord. pres. 60 to 65 lb., fire pres. same.

Rates: flat, $9 year, bath $2.40, closet $2.40; meter, 25c. 1000 gal.

TITUSVILLE, 8,523.

MUNICIPAL.

City Mgr., H. A. Holstein.....Titusville
Supt. Pub. Property, J. J. Sharpe. "
Sec., P. S. Potter..... "
Engr. P'g. Sta., John Smith..... "

Wells, 10 artesian 8 & 10-in. 50 to 68 ft. deep; one mi. from center distribution; no purification.

Boilers, 3 hor. tubular 80 & 175-hp. Titusville; hand stoking; pumps, 1-5,000,000 gal. Snow, 1-1,000,000 gal. Holly; pumping direct.

Pipe, 45 mi. 4 to 16-in. c. & w. i.; hyd. 180, hose con. 2½-in. Holly, Darling & Ludlow; valves, r. h. thd. various; meters, 125 various; av. daily cons. 1,500,000 gal.; serv. con. 2500; ord. pres. 50 to 80 lb., fire pres. 90 to 120 lb.

Rates: meter, min. charge $3 quarter, 10c. 1000 gal. max.

TOPTON, *1,000.

MUNICIPAL.

Comr., T. DeLong.....Topton
" Edwin H. Matz..... "
" Edwin Morgan..... "
Sec., Chas. H. Schlenker..... "
Supt., Wm. F. Rohrback..... "

Springs & artesian well; one mi. from center business section; no purification; oil engine, 4-hp.; gravity distribution from reservoirs, 2.

Rates: flat, $2.50, six mos., bath $1, closet $1.

TOWANDA, 4,281.

TOWANDA WATER WORKS. (Privately owned.)

Pres., E. F. Kizer.....Towanda
Sec., John W. Cudding..... "
Treas., W. W. Jennings..... "
Supt., S. S. Watson..... "
Des. Engr., H. E. Bull..... "

Springs & artesian wells, 2 450 ft. deep; 1 to 19 mi. from center distribution.

Boiler, tubular 40-hp.; air compressor, Ingersoll-Rand; av. daily cons. 1,000,000 gal.; serv. con. 1273; ord. pres. 125 lb., fire pres. same.

Rates: flat, $10 year, bath $4. closet $3; meter, 50c. 1000 gal. max., 10c. min.

TRAFFORD, 1,959.

TRAFFORD WATER COMPANY.

Pres., Edw. D. Seitz,
200 Westinghouse Bldg., Pittsburgh
Sec. & Treas., Geo. V. Milligan,
106 Electric Ave., East Pittsburgh

Allegheny River, purchased from the Penna. Water Co.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 46; meters, 295 various; av. daily cons. 185,000; serv. con. 293; ord. pres. 20 to 100 lb.

Rates: meter, min. charge $12 year 12,000 gal., 25c. 1000 gal. max., 8c. min.

TUNKHANNOCK, 1,598.
TUNKHANNOCK WATER CO.
Pres., F. L. Sittser.....Tunkhannock
Treas., E. N. Stone..... "
Supt., Wm. E. Kiefen..... "
Springs & wells, one 6-in. 344 ft. deep & one 2.5 x 4 ft. in diam. 20 ft. deep; no purification.
Pumps, 1-14,400 gal. hor. triplex Rumsey belted to oil engines, De La Vergne; pumping to reservoir, 2-800,000 gal.
Pipe, 6 mi. 1 to 12-in. c. i.; hyd. 34, hose con. 2½-in. R. D. W.; valves, 49 r. & l. h. opening R. D. W.; meters, 12 Thomson & National; av. daily cons. 150,000 gal.; serv. con. 495; ord. pres. 48 to 62 lb.
Rates: flat, $8 year, bath $2, closet $2; meter, 20c. 1000 gal. max., 12c. min.

TURTLE CREEK, 4,995.
SUPPLIED BY THE PENNSYLVANIA WATER COMPANY. See Wilkinsburg.

UNION CITY, 3,604.
MUNICIPAL. Fire & Water Commission.
Comr., Harry Merrill.....Union City
" J. W. Middleton..... " "
" L. D. Brown..... " "
Clerk, Homer Johnson..... " "
Supt., T. H. Reynolds..... " "
Springs & wells, 8 artesian 6-in. 100 ft. deep; 2 mi. from center business section; reservoirs, 2.
Pump, one hor. centrifugal Allis-C. 1914 d. con. to elec. motor, 220 v. 3 ph. 60 cys. Allis-C. 1914; pumping to reservoirs above.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 85, hose con. 2½-in.; av. daily cons. 500,000 gal.; serv. con. 970; ord. pres. 15 to 45 lb., fire pres. 110 to 120 lb.
Rates: flat, $4 six mos., bath $2, closet $1.50.

UNIONTOWN (Fayette Co.), 13,344.
UNIONTOWN WATER CO.
Pres., C. H. Seaton.....Uniontown
V. Pres., R. W. Playford..... "
Sec. & Treas., M. H. Bowman.. "
Supt., J. Vance Graft..... "
Chemist, Pittsburgh Testing Laboratory.....Pittsburgh
Springs & streams; 3 mi. from center distribution; no purification.
Gravity distribution from reservoirs, 6-165,000,000 gal.; pipe, 45 mi. 4 to 12-in. c. i.; hyd. 127, hose con. 2½-in. R. D. W.; valves, 350 l. h. thd. R. D. W.; meters, 1200 National; av. daily cons. 2,500,000 gal.; serv. con. 3,700; ord. pres. 75 to 110 lb., fire pres. same.
Rates: flat, min. $6; meter, 25c. 1000 gal. max., 10c. min.

UNIONTOWN (Dauphin Co.), *300.
UNIONTOWN WATER CO.
Pres., H. J. Moyer.....Uniontown
V. Pres., J. N. Buffington..... "
Sec., C. F. Buffington..... "
Treas., J. A. Laudenslager.....Uniontown
Supt., Elmer W. Dockey..... "
Mountain springs; 1.5 mi. from center distribution; no purification.
Gravity distribution from reservoir, 27,500 gal.; pipe, 2 mi. 4 to 12-in. c. i.; valves, 12; meters, none; av. daily cons. 1600 gal.; serv. con. 80; ord. pres. 50 lb.
Rates: flat, $5.50 year.

UPLAND, 2,221.
SUPPLIED BY THE NEW CHESTER WATER CO. See Chester.

VANDLING, 985.
SUPPLIED BY THE SCRANTON GAS AND WATER COMPANY. See Scranton.

VILLANOVA, 226.
SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

WARREN, 11,080.
WARREN WATER COMPANY. (Controlled by American Waterworks & Electric Co., 50 Broad St., New York, N. Y.)
Pres., A. M. Lynn.....New York, N. Y.
V. Pres., M. F. Riley..... " " "
Sec., W. D. Freer..... " " "
Treas., D. M. Watt..... " " "
Supt., H. C. Shaw.....Warren
Chf. Engr., G. W. Biggs, Jr.New York, N. Y.
Engr. P'g. Sta.,
S. W. Jerman.....Warren
Chemist, W. Donaldson...New York, N. Y.
Allegheny River & Morrison Run; 2 mi. from center business section; impounding reservoir, 5,000,000 gal.; settling & coagulating tank, 50 ft. in diam. 20 ft. high; mechanical filters, 3,000,000 gal.; chemicals, hypo-chlorite of lime, sulphate of alumina & lime.
Boilers, 2 wtr. tube 408-hp. Geary; hand stoking; pumps, 5-13,000,000 gal. Prescott & Worth.; pumping direct & to reservoir, 1,000,000 gal.
Pipe, 30 mi. 4 to 12-in. c. i.; hyd. 162, hose con. 2½-in. R. D. W.; valves, Ludlow; meters, 1712 Neptune, Worth. & National; av. daily cons. 1,000,000 gal.; serv. con. 2779.

WASHINGTON, 18,778.
CITIZEN'S WATER CO.
Supt., J. V. Clark.....Washington
Chartier's Creek; pumping.

WATERFORD, 734.
OWNED BY CHARLES HIMROD.
Pres. & Supt., Chas Himrod....Waterford
Springs; one mi. from center distribution; no purification.
Gravity distribution from reservoir, 150,000 gal.; pipe, 5 mi. 1½ to 6-in. c. & w. i.; hyd. 13, hose con. 4-in.; valves, 6 l. h. opening R. D. W.; meters, 80 Buffalo & Pittsburgh; av. daily cons. 20,000 gal.; serv. con. 206; ord. pres. 5 to 20 lb., fire pres. 20 lb.

Rates: flat, $4 year, bath $3, closet $3; meter, min. charge $1 quarter 4000 gal., 25c. 1000 gal. max., 4c. min.

WAYNE, 3,000.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

WAYNESBORO, 7,199.

WAYNESBORO WATER CO.
Pres., M. E. Lollinburger.....Waynesboro
Supt., John Funk..... "

Springs; 6 mi. from center distribution; reservoirs, 2-2,000,000 gal.; no purification.

Gravity distribution; pipe, 40 mi. 2 to 16-in.; hyd. 49, hose con. 2-in. R. D. W.; meters, 25; av. daily cons. 150,000 gal.; serv. con. 1,000; ord. pres. 50 to 70 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $2; meter, min. charge $1.50 mo., 20c. 1000 gal. max., 4c. min.

WELDON, 246.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER SUPPLY CO. See Philadelphia.

WELLSBORO, 3,183.

WELLSBORO WATER CO.
Pres. & Treas., W. D. Van Horn..Wellsboro
Sec., M. L. Harrison..... "
Gen. Mgr. & Pur. Agt., Wm. Bache "
Chemist, W. E. Lundblad.....Sayre

Springs & artesian wells, 6-in. 50 ft. deep; 11 mi. from center business section; impounding reservoirs, 2-20,000,000 gal.; chemical, hypochlorite of lime; gasoline engine, 6-hp. Olds 1911; gravity distribution from reservoirs above.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 77, hose con. 2½-in. R. D. W. & Darling; valves, 45 r. h. opening R. D. W.; meters, 35 National; av. daily cons. 250,000 gal.; serv. con. 650; ord. pres. 30 to 80 lb., fire pres. same.

Rates: flat, $8 year, bath $4, closet $4; meter, 37.5c. 100 cu. ft. max., 10c. min.

WEST CHESTER, 11,767.

MUNICIPAL.
Supt., Evan A. Mercer.....West Chester

Chester Creek; pumping.

WEST ELIZABETH, 841.

SUPPLIED BY THE MONONGAHELA VALLEY WATER CO. See Glassport.

WEST HOMESTEAD, 3,009.

SUPPLIED BY SOUTH PITTSBURGH WATER CO. See South Pittsburgh.

WEST MAHANOY, *8,000.

COSIRARD WATER COMPANY. Office, Lafayette Bldg., Phila., Pa. Supplies Girardville Boro & Union Township.
Pres., Edwin S. Stuart.....Philadelphia
Treas., L. O. Heiland..... "
Gen. Mgr., James Archbald, Jr. Pottsville
Supervisor, Henry J. Weller....Girardville
Engr., Victor Kissinger.....Ringtown

Springs & impounding reservoir, 450,000,000 gal.; 3 to 6 mi. from center distribution; settling basins, 4-177,000,000 gal.

Pumps, 2-1,600,000 gal. hor. centrifugal Alberger 1914 d. con. to elec. motors, 2 250-hp. ea. 440 v. 3 ph. 60 cys. Crocker Wheeler 1914.

WEST MIDDLESEX, 1,157.

MUNICIPAL.
Chmn. Comrs.,
F. B. Teasure.....West Middlesex
Comr., J. H. Bateman, Jr.. " "
Sec., F. H. Bair..... " "
Supt., W. W. Johnson..... " "

Wells, one tubular 200 ft. deep; ½ mi. from center distribution; no purification.

Pump driven by gas engine, 20 hp. Nalls 1905; pumping to reservoir.

Pipe, 5 mi. 2 & 6-in.; hyd. 15, hose con. 2-in.; meters, 190 Neptune; serv. con. 215; ord. pres. 50 to 90 lb.

Rates: meter, min. charge 50c. mo. 1000 gal., 50c. 1000 gal.

WEST NEWTON, 2,880.

WEST NEWTON WATER CO.
Pres., N. Weddle, Jr.....West Newton
V. Pres., T. V. Sutton..... " "
Sec., Treas., Gen. Mgr. & Pur. Agt., James Fergus..... " "
Cons. Engr., Morris Knowles...Pittsburgh
Engr. P'g. Sta., Wm. Fergus, West Newton

Spring & wells, 8 tubular 6-in. 200 ft. deep; ¾ mi.from center business section; no purification.

Pumps, 1-360,000 gal. vert. s. Rumsey 1907, 1-384,000 gal. vert. s. Goulds 1912; air compressors, 2 500 cu. ft. ea. Ingersoll-Rand & Bessemer 1914; elec. motors, 2 30-hp. ea. 220 v. 3 ph. 60 cys. Westg. 1910; gas engines, 50 & 60-hp. Bessemer 1914 & Backus 1907; elec. energy from West Penn Electric Co.; pumping to reservoirs, 2-1,015,000 gal.

Pipe, 8 mi. 3 to 10-in. c. i.; hyd. 52, hose con. 2½-in. Ludlow; valves, 68 l. h. opening Ludlow; meters, 225 Pittsburgh & Buffalo; av. daily cons. 150,000 gal. 75%; serv. con. 450; ord. pres. 60 to 130 lb., fire pres. same.

Rates: flat $1 mo.; meter, min. charge $1 mo. 2000 gal.; 50c. 1000 gal. max., 11c. min.

WEST PITTSTON, 16,267.

SUPPLIED BY THE SPRING BROOK WATER SUPPLY CO. See Wilkes-Barre.

WEST READING, 2,064.

WEST READING WATER COMPANY. Supplies Wyomissing. Office, 524 Washington St., Reading, Pa.
Pres., C. H. Schaeffer.....Reading
Treas., M. A. Gring..... "
Sec., E. Carroll Schaeffer..... "
Supt., Jas. F. Matz..... "
Cons. Engrs., Johnson & Fuller, 150 Nassau St...New York, N. Y.

Schuylkill River; near center distribution;

settling & coagulating basin, 66,000 gal.; mech. filters, 500,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, 1-500,000 gal. driven by elec. motors, 220 v. 3 ph. 60 cys.; elec. energy from Metropolitan Elec. Co.; pumping to standpipe, 2 (1901, 1911) 400,000 gal.

Pipe, 9 mi. 4 to 12-in., c. i.; hyd. 20, hose con. 4-in.; meters, 15 National & Worth.; av. daily cons. 300,000 gal.; serv. con. 600; ord. pres. 75 lb.

WEST VIEW, 1,626.

SUPPLIED BY THE OHIO VALLEY WATER CO. See Bellevue.

WEST YORK, 2,435.

SUPPLIED BY THE YORK WATER CO. See York.

WESTFIELD, 1,207.

MUNICIPAL.

Supt., R. C. Outman.....Westfield
Sec., C. C. Williams..... "

Springs & well, 6-in. 139 ft. deep; near center business section; reservoirs, 625,000 gal.; gas engine, 11-hp. Clark 1910.

Pipe, 6 mi. 3 to 8-in. c. i.; hyd. 30, hose con. 2-in.; valves, 40 l. h. opening R. D. W.; meters, 130 Buffalo & Pittsburgh; serv. con. 300; ord. pres. 80 lb.

Rates: flat, $6 year; meter, min. charge $2 quarter 1000 cu. ft.

WICKBORO, 2,775.

SUPPLIED BY ARMSTRONG WATER CO. See Kittaning.

WILBURTON, 800.

SUPPLIED BY THE WYOMING VALLEY WATER SUPPLY (Locust Mountain Division.) See Centralia.

WILKES-BARRE, 67,105.

SPRING BROOK WATER SUPPLY CO. Supplies: Avoca, Dorrancetown, Edwardsville, Forty Fort, Hughestown, Kingston, Luzerne, Miner's Mills, Minooka, Moosic, Nanticoke, Old Forge, Parsons, Pittston, Plymouth, Rendham, West Pittston, Wilkes-Barre, Wyoming & Yatesville.

Pres., L. A. Watres.....Scranton
Sec. & Treas., I. H. Hickes....Wilkes-Barre
Asst. Sec., L. H. Watres..... " "
Gen. Mgr., O. M. Lance..... " "
Supt., I. Jones..... " "

WILKINSBURG, 18,924.

PENNSYLVANIA WATER COMPANY. Office, 2512 Oliver Bldg., Pittsburgh. Supplies East Pittsburgh, Edgewood, North Braddock, Pitcairn, Rankin, Swissvale, Trafford, Turtle Creek, Wilmerding, and parts of 12th, 13th & 14th wards of the city of Pittsburgh.

Pres., R. B. Mellon.....Pittsburgh
V. Pres., Geo. S. Davison..... "
Sec. & Treas., Jos. T. Miller..... "
Chf. Engr. & Supt.,
W. C. Hawley.....Wilkinsburg
Engr. P'g. Sta.,
H. W. Stevenson.....Nadine
Chemist, James M. Caird.....Troy, N. Y.

Allegheny River; 2.5 mi. from Wilkinsburg; settling basins, 2-3,000,000 gal.; mechanical filters, 10-12,500,000 gal., ea. 20 x 22.5 ft. Pittsburgh; chemicals, sulphate of alumina.

Boilers, 2 312-hp. ea. 185 lb. Heine 1903, 2 250-hp. ea. 185 lb. Hogan 1897, 2 347-hp. ea. 185 lb. Sterling 1901; hand & mech. stokers, Wilkinson; pumps, 1-10,000,000 gal. comp. d. act. Allis-C. 1904, 1-10,000,000 gal. vert. comp. d. act. Allis-C. 1909, 1-6,000,000 gal. vert. tri. exp. d. act. Nordberg 1900; pumping to reservoirs, 4-30,000,000 gal.

Pipe, 155 mi. 4 to 30-in. c. i.; hyd. 652, hose con. 2½-in.; valves, 2400 l. h. opening Rensselaer; meters, 14,000 various; av. daily cons. 8,500,000 gal. 81.8%; serv. con. 14,853; ord. pres. 20 to 210 lb., fire pres. same.

Rates: meter, min. charge $5 6 mo. 2500 cu. ft., 20c. 100 cu. ft. max., 6c. min.

WILLIAMSPORT, 31,860.

WILLIAMSPORT WATER COMPANY. Office, 28 W. 4th St. Supplies South Williamsport & Duboistown.

Pres., H. B. Brown.....Williamsport
V. Pres., B. A. Howe..... "
Sec.-Treas. & Gen. Mgr.,
W. H. Bloom..... "
Engr. P'g. Sta., E. H. Maroney "

Impounding reservoirs, 2-27,600,000 gal. & wells, 8 open 30 ft. in diam. 33 ft. deep; 2 to 5 mi. from center business section.

Boilers, 4 150-hp. ea. 150 lb. Keeler; pumps, 1-3,000,000 gal. d. act. Knowles, 1-5,000,000 gal. comp. Knowles, 1-5,000,000 gal. Epping-Carpenter; elec. motor, 100 v. d. c. 10 kw.; gravity distribution from reservoirs, 2-27,600,000 gal. & standpipes, 2-90,000 gal.; pumping only during dry weather.

Pipe, 88 mi. 3 to 24-in. c. i.; valves, r. h. opening; meters, 125 various; av. daily cons. 6,000,000 gal.; ord. pres. 50 to 65 lb.

Rates: flat, $15 year including bath & closet; meter, 10c. 1000 gal.

WILLOW GROVE, 750.

SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER CO. See Philadelphia.

WILMERDING, 6,123.

SUPPLIED BY THE PENNSYLVANIA WATER COMPANY. See Wilkinsburg.

WILSON, 1,108.

SUPPLIED BY THE MONONGAHELA VALLEY WATER CO. See Glassport.

WINBURNE, 1,100.

WINBURNE WATER COMPANY. Supplied Kylertown, Lanse & Munson.

Pres., A. O. Sommerville.....Winburne

V. Pres., A. E. Hess.....Winburne
Sec., & Gen. Mgr. & Pur. Agt.,
G. F. Dukeman..... "
Treas., J. E. Kauffelt..... "
Black Bear River & impounding reservoirs, 780,000 gal.; 5 mi. southeast of Winburne; no purification.
Pumps, driven by elec. motor, 7.5-hp. 230 v. 1915; pumping direct.
Pipe, 10 mi. 2 to 12-in. c. i.; hyd. 9, hose con. 2½-in. Darling; valves, 10 r. h. opening; meters, 6 National; serv. con. ¾00; ord. pres. 85 to 95 lb., fire pres. same.
Rates: flat, $9 year; meter, 8c. 1000 gal.

WINTON, 5,280.
SUPPLIED BY THE SCRANTON GAS & WATER COMPANY. See Scranton.

WOMELSDORF, 1,301.
WOMELSDORF CONSOLIDATED WATER Co. Supplies Robesonia. Office, 143 W. Greenwich St., Reading, Pa.
Pres., Mary S. Filbert.....Reading
V. Pres., L. V. Rausch..... "
Sec., W. D. Filbert..... "
Treas. & Supt., H. M. Hafer...Womelsdorf
Mountain stream; 2 mi. from center distribution; no purification.
Pumps, 1-172,800 gal. F. M. driven by oil engines, 8-hp. F. M.; pumping to reservoirs, 100,000 gal.
Pipe, 9 mi. 4 to 8-in.; hyd. 32, hose con. 2½-in. Mellert; valves, 38 l. h. thd. Mellert; meters, 30 Neptune; av. daily cons. 300,000 gal.; serv. con. 530; ord. pres. 110 lb., fire pres. same.
Rates: flat, $6 year, bath $3, closet $2; meter, min. charge, $3, 30c. 1000 gal. max., 15c. min.

WOODLAWN, 1,396.
SUPPLIED BY THE SINKING SPRING WATER Co. See Sinking Spring.

WOODWARD, 587.
WOODWARD WATER Co.
Pres., J. L. Kreamer.....Woodward
Treas., J. Nonaller..... "
Sec., E. H. Musser..... "
Springs; gravity distribution.

WOOLRICH, 176.
SUPPLIED BY THE CHATHAM WATER Co. See Avis.

WYNCOTE, 400.
SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER Co. See Philadelphia.

WYOMING, 3,010.
SUPPLIED BY THE SPRING BROOK WATER SUPPLY Co. See Wilkes-Barre.

WYOMISSING, 985.
SUPPLIED BY WEST READING WATER COMPANY. See West Reading.

YATESVILLE, 573.
SUPPLIED BY THE SPRING BROOK WATER SUPPLY Co. See Wilkes-Barre.

YEADON, 882.
SUPPLIED BY SPRINGFIELD CONSOLIDATED WATER Co. See Philadelphia.

YORK, 44,750.
THE YORK WATER Co. Supplies North York, West York and Spring Garden.
Pres., Chas Kurtz.....York
V. Pres., Geo. S. Billmeyer..... "
Sec., Smyser Williams..... "
Treas., J. J. Frick..... "
Asst. Sec., Edgar P. Kable..... "
Gen. Mgr., John F. Sprenkel..... "
Asst. Gen. Mgr. L. A. Geupel..... "
Codorus Creek; 4 mi. from center distribution; impounding reservoir, 907,000,000 gal.; settling & coagulating basins, 2-17,500,000 gal.; mech. filters, 6,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.
Boilers, 2 water-tube 200-hp. ea. Campbell & Zell, one water-tube 320 hp. B. & W.; pumps, 2-5,000,000 gal. Worth., 1-8,000,000 gal. Snow; pumping to reservoirs, 2-2,200,000 gal.
Pipe, 85.2 7 mi. 4 to 30-in. c. i.; hyd. 387, hose con. 2½-in. various; valves, 1251 r. h. opening various; meters, 572 various; av. daily cons. 3,545,000 gal.; serv. con. 14,342; ord. pres. 50 to 90 lb. fire pres. same.

YOUNGWOOD, 1,881.
SUPPLIED BY THE WESTMORELAND WATER Co. See Greensburg.

PHILIPPINE ISLANDS

CEBU, 31,079.

MUNICIPAL.

Comr., C. D. Upington.....Cebu
" Fructoso Ramos..... "
" C. Russell..... "
Supt., Marcelo Regner..... "
Des. Engr., H. F. Cameron..... "

Impounding reservoir, 175,000,000 gal.; 2.5 mi. from center distribution; gravity distribution from reservoir, 4,000,000 gal.

Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 95, hose con. 2½-in.; valves, 22; meters, 400; av. daily cons. 500,000 gal. 90%; serv. con. 400; ord. pres. 95 to 125 lb., fire pres. same.

Rates; all meter, 4c. metric ton max., 2.5c. min.

LUCENA, 9,375.

LUCENA ELECTRIC LIGHT, ICE & WATER CO.

Pres., Froilan Lopez.....Lucena
V. Pres., Mauro Salvacion..... "
Sec., Gervasio Unson..... "
Treas., Daniel Marques..... "
Mgr., Meliton Sancho..... "

Oil engine, 70-hp. De La Vergne.

MANILA, 219,928.

Chief Engr., Sewer & Waterworks Construction.

Abraham Gideon.....Manila

PORTO RICO

CABO ROJO, 3,847.
MUNICIPAL. Artesian wells.

CIALES, 1,683.
MUNICIPAL.
Supt., Vicente Martinez.....Ciales

JUNCOS, 4,141.
MUNICIPAL.
Mayor, Dr. Jose Barreras.....Juncos

LARES, 2,751.
MUNICIPAL.
Mayor, Luis Vivo Vilsela.....Lares

QUEBRADILLAS, 1,224.
MUNICIPAL.
Mayor, Manuel Lamela Abicu..Quebradillas

YABUCOA, 2,816.
MUNICIPAL.
City Clerk, E. V. Ramoz.....Yabucoa

YANCO, 6,589.
MUNICIPAL.
Mayor, Domingo Autommater.....Yanco

RHODE ISLAND

BARRINGTON, 2,452.

Supplied by the Bristol & Warren Water Works Co. See Bristol.

BRISTOL, 8,565.

BRISTOL & WARREN WATER WORKS Co. Supplies Warren & Barrington.
Pres., S. P. Colt.....Bristol
Treas., C. H. Manchester.....Providence
Sec., B. D. Martin.....Warren
Supt., Chas. H. Tuttle.....Bristol
Cons. Engr., Samueal M. Gray..... "

Kickemuit & Palmer Rivers; 3 to 12 mi. from center distribution; settling and coagulating basin, 106,500 gal.; mech. filters, 3,000,000 gal.; chemicals, sulphate of alumina & soda ash.

Boilers, 2 water-tube 135-hp. ea. B. & W.; hand stoking; pumps, 2-2,000,000 gal. ea. Worth.; pumping to standpipe (1908) steel.

Pipe, 29 mi. 4 to 16-in. c. i.; hyd. 198, hose con. 2½-in. Norwood; valves, 242 r. h. thd. Crane; meters, 75 various.

BURRILLVILLE, 7,878.

PASCOAG WATER CO.
Pres., Moses Jory.....Burrillville
Treas., C. M. Whittiker..... "
Supt., M. J. Masoney..... "

Impounding reservoirs & driven wells.

Boiler, hor. 50-hp.; hand stoking; pumps, 3-2,296,000 gal.; pumping direct & to standpipe (1903) iron.

Hyd. 80, hose con. 2½-in.; valves, l. h. thd.; av. daily cons. 144,000 gal.; serv. con. 400; ord. pres. 50 to 120 lb., fire pres. same.

Rates; flat, $7 year; meter, 30c. 1000 gal.

CENTRAL FALLS, 22,754.

Supplied by the city of Pawtucket.

EAST GREENWICH, 3,420.

EAST GREENWICH WATER SUPPLY CO.
Pres., David A. Boody.....East Greenwich
Sec., Theodore Ames, Jr.... " "
Treas. & Supt.,
Thos. S. Pierce..... " "
Cons. Engr., Nicholas S. Hill, Jr.,
100 William St., New York, N. Y.
Engr. P'g. Sta. & Chemist,
G. F. Gardner.....East Greenwich

Hauts River; 1.5 mi. from center distribution; mech. filters, 2,000,000 gal.; chemicals, sulphate of alumina & soda ash.

Boilers, one water-tube 84-hp. Betts, one tubular 150-hp. Kingsford; pumps, 2-1,000,000 gal. ea. Worth. & Epping-Carpenter; pumping to standpipe (1908) iron.

Pipe, 30 mi. 4 to 12-in. c. i.; hyd. 92, hose con. R. D. W. & Smith; valves, 110 R. D. W. & Smith; meters, 400 various; av. daily cons. 375,000 gal.; serv. con. 900; ord. pres. 40 to 55 lb., fire pres. 40 to 80 lb.

Rates; flat, min. $7 year, bath $5, closet $5; meter, min. charge $10 25,000 gal., 27½c. 1000 gal. max., 10c. min.

EAST PROVIDENCE, 15,808.

MUNICIPAL. Watchemoket Fire District.
Chmn. Comrs.,
Wm. E. Bowen.....East Providence
Comr., Luke H. Rice..... " "
Sec., Jos. McCormick, Jr... " "
Treas., James G. Peck..... " "
Supt. & Engr. P'g. Sta.,
S. C. Waldron..... " "

Supply from the Pawtucket Waterworks. See Pawtucket.

Gravity distribution; pipe, 22 mi. 4 to 12-in. c. i.; hyd. 66, hose con. 3½-in. R. D. W. & Chapman; valves, 105 l. h. thd. Chapman & Rensselaer; meters, 1100 National & Pittsburgh; av. daily cons. 1,200,000 gal.; serv. con. 1450; ord. pres. 90 to 130 lb., fire pres. same.

Rates; flat, $5 year; meter, min. charge $10 year, 33,333 gal., 30c. 1000 gal max., 10c. min.

EAST PROVIDENCE WATER CO.
Supt., Chas. E. Pierce.....Rumford
Cons. Engrs.,
Jenks & Ballou.....East Providence
Treas., Arthur B. Lisle..... " "
Engr. P'g. Sta.,
S. E. Dunlap..... " "

Impounding reservoir on Ten Mile River; 1.5 mi. from center distribution; settling & coagulating basins, 4 x 4 x 15 ft.; mech. filters, 2,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Boiler, tubular 100-hp. Knowles; hand stoking; pumps, 1-1,728,000 gal. steam Knowles, 1-720,000 gal. Knowles driven by water-turbine, 1-720,000 gal. De Laval driven by elec. motor, 1-1,728,000 gal. centrifugal Lawrence; elec. motors, 2000 v. 3 ph. 60 cys. G. E.; elec. energy from Glen Lyon Dye Works; pumping direct & to standpipe, 1,000,000 gal. steel.

Pipe, 25 mi. 4 to 12-in. c. i.; hyd., hose con. 2½-in. Chapman, Rensselaer, R. D. W. & Darling; valves, r. h. opening Chapman & Rensselaer; meters, 1438 National, Thomson, Hersey, Neptune & Pittsburgh; av. daily cons. 1,400,000 gal.; serv. con. 1915; ord. pres. 130 to 150 lb., fire pres. same.

GRANITEVILLE, *600.

STONELEIGH WATER COMPANY.
Pres. & Gen. Mgr., A. Memmert, Centredale
Sec. & Treas.,
G. Clifford Howard..... "

Springs & wells, 2 tubular 8-in. 197 & 402 ft. deep; near center distribution; no purification.

Pumps, 2 Myers driven by gasoline engines, two 1.5-hp. ea. F. M.; wind-mill, 12 ft. Samson; pumping to reservoirs, 2-93,000 gal.

Hyd. 4, hose con. 2½-in. Kennedy; meters, 48 Neptune; av. daily cons. 2500

gal.; serv. con. 48; ord. pres. 30 lb., fire pres. same.

Rates; meter, $2 for 37,000 gal.

KINGSTON, 550.

Supplied by the Wakefield Water Co. See Narragansett.

NARRAGANSETT, 1,250.

WAKEFIELD WATER CO. Supplies Kingston.

Pres., H. W. Pancoast.....Narragansett
Sec., M. G. Belknap..... "
Treas., H. B. Pancoast, Jr..... "
Supt., Thos. G. Hazard, Jr.... "
Engr. P'g. Sta.,
Daniel T. Card..... "

Springs & impounding reservoirs, 2-38,959,000 gal.; 3 mi. from center distribution; no purification.

Boilers, 2 hor. tubular Cunningham; hand stoking; pumps, 2-720,000 gal. Platt, 2-1,153,000 gal. Worth.; gasoline engines, 225-hp. Mietz & Weiss; pumping to standpipe (1899) iron.

Pipe, 16.4 mi. 4 to 12-in. c. i.; hyd. 148 Chapman & R. D. W.; meters, 161 various; av. daily cons. 475,000 gal.; serv. con. 974; ord. pres. 90 lb., fire pres. same.

Rates; flat, $9 year, bath $6, closet $6; meter, min. charge $32 80,000 gal., 40c. 1000 gal. max., 25c. min.

NEWPORT, 27,149.

NEWPORT WATERWORKS COMPANY.

Pres., Bradford Norman.....Newport
Sec. & Treas., Maxwell Norman... "
Gen. Mgr. & Engr., Edwin W. Kent "
Supt., Harry N. Ward..... "
Engr. P'g. Sta., Jesse Le Valley.... "
Chemist, Dr. Sweet..... "

Impounding reservoirs, 6-1,577,000,000 gal.; 2 mi. from center distribution; settling & coagulating basins, 2-1,000,000 gal.; mech. filters, 6-7,500,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Boilers, 3 water-tube 500-hp. B. & W.; hand stoking; pumps, 2-6,500,000 gal. ea. Allis-C. & Blake; pumping to reservoir, 8,000,000 gal.

Av. daily cons. 3,654,000 gal.; ord. pres. 60 lb., fire pres. same.

PAWTUCKET, 51,622.

MUNICIPAL. Supplies Central Falls, West Warwick Twp., & sells water to Watchemoket Fire District of East Providence.

Comr. Pub. Wks., Isaac Gill.....Pawtucket
Supt., Wm. Harvey..... "
Engr. P'g. Sta., Albert H. Keene. "
Asst. Comr., Joseph Wood..... "

Impounding reservoir on Abbott River, 1,400,000,000 gal.; 2 mi. from center distribution; no purification.

Boilers, 4 hor. tubular 250-hp. Bigelow; hand stoking; pumps, 4-27,000,000 gal. Corliss & R. D. W.; pumping direct & to reservoir, 19,385,000 gal.

Pipe, 190 mi. 4 to over 30-in. c. i.; hyd. 1159, hose con. 2½-in. Fales & Jinks; valves, r. h. opening Chapman; meters, 10-, 200 National & Pittsburgh; av. daily cons. 6,752,000 gal.; serv. con. 11,548; ord. pres. 65 to 130 lb., fire pres. same.

PHENIX, 2,194.

PAWTUXET VALLEY WATER CO.

Pres., E. E. Arnold.....Providence
V. Pres., F. W. Green.....River Point
Treas. E. W. Whitford.....Phenix
Supt., A. F. Hill..... "

Spring Lake; 3 mi. from center distribution.

Gravity distribution from reservoir, 35,000,000 gal.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 190, hose con. 2½-in. Ludlow; valves, 160 r. h. thd.; meters, 260 National; serv. con. 585; ord. pres. 50 to 96 lb.

WARREN, 6,585.

Supplied by the Bristol & Warren Water Works Co. See Bristol.

WESTERLY, 8,696.

MUNICIPAL.

Chmn. Comrs., Louis W. Arnold...Westerly
Comr., Tristam D. Babcock..... "
" A. N. Crandall..... "
Supt., Thomas McKenzie..... "

Wells, 82 tubular 2½-in. 56 ft. deep; 1.25 mi. from center distribution.

Boilers, 3 return tubular & water-tube 60 & 132-hp. Cunningham & B. & W.; hand stoking; pumps, 2-1,000,000 gal. Worth., 1-2,000,000 gal. Worth.; pumping to standpipe (1886, 1911) w. i. & concrete.

Pipe, 42 mi. 4 to 12-in. c. i.; hyd. 198, hose con. 2½-in. Ludlow; valves, 274 r. h. opening Ludlow & Chapman; meters, 1910 various; av. daily cons. 823,000 gal.; serv. con. 2100; ord. pres. 45 to 92 lb., fire pres. same.

Rates; meter, 30c. 1000 gal. max., 10c. min.

WOONSOCKET, 38,125.

MUNICIPAL.

Chmn. Comrs., Wm. F. Watson, Woonsocket
Comr., Thos. Bertenshaw..... "
Clerk, Alphonse Ganlin..... "
Supt., Carleton Scott..... "
City Engr., Frank H. Miller.... "
Engr., P'g. Sta., Andrew Leduc. "

Impounding reservoir on Crook Fall Brook, 655,000,000 gal.

Boilers, 3 hor. tubular; hand stoking; pumps, 2-1,000,000 gal. ea. Worth., 1-2,500,000 gal. Deane, 1-5,000,000 gal. Bethlehem; pumping to standpipes, 4 iron & concrete.

Pipe, 62.4 mi. 4 to 30-in. c. i.; hyd. 713, hose con. 2½-in. Chapman; valves, 773 r. h. thd. Chapman; meters, 3625 Thomson & Hersey; av. daily cons. 1,525,000 gal.; serv. con. 3625; ord. pres. 50 to 120 lb., fire pres. same.

Rates; all meter, min. charge $10 year, 21c. 100 cu. ft. max., 7c. min.

SOUTH CAROLINA

ANDERSON, 9,654.

ANDERSON WATER, LIGHT & POWER Co. (Controlled by Southern Public Utilities Co., Charlotte, N. C.).

Pres., V. D. Taylor..... Charlotte
Treas., E. T. Marshall..... "
Sec., W. C. Parker..... "
Gen. Mgr., H. A. Orr..... Anderson
Supt., R. T. Long..... "

Bailey's Creek & wells, 80 tubular 2-in. 40 to 85 ft. deep; 1.5 mi. from center distribution; settling & coagulating basin, 800,000 gal.; mech. filters, 900,000 gal.; chemical, sulphate of alumina.

Pumps, 1-440,000 gal. Deane driven by elec. motor, 300 kw. 2200 v. 2 ph. 60 cys. G. E.; pumping to standpipe (1890) iron.

Pipe, 22 mi. 4 to 12-in. c. i.; hyd. 225, hose con. 2¼-in.; meters, 1500 various; av. daily cons. 700,000 gal.; serv. con. 1200; ord. pres. 45 lb., fire pres. 90 lb.

Rates: meter, 25c. 1000 gal. max., 15c. min.

BAMBERG, 1,937.

MUNICIPAL.

Supt., G. D. Ryan.....Bamberg

Artesian wells, 500 ft. deep; 1000 ft. from center distribution; settling tank & reservoir, 85,000 gal.

Boilers, 2 hor. return tubular 100-hp. ea. Lombard; hand stoking, pumps, 2-1,440,000 gal. Platt; pumping to elev. tank, 75,000 gal. iron.

Pipe, 1.4 mi. 4 to 12-in. c. i.; hyd. 5, hose con. 2½-in. Pratt & Cady; valves, 15 r. h. thd.; meters, 5 Worth.; serv. con. 10; ord. pres. 64 lb., fire pres. 64 to 150 lb.

Rates: meter, 25c. 1000 gal.

BEAUFORT, 2,486.

MUNICIPAL.

Chmn. Comrs., W. F. Morscher...Beaufort
Comr., W. A. Long..... "
Comr., H. S. Townsend..... "
Supt., H. R. Polletzen..... "
Chemist, F. L. Parker, Jr..... "

Artesian wells, 12-in. 125 ft. deep; ¾ mi. from center business section; no purification.

Boilers, 3 80 & 137-hp. 65 & 125 lb. B. & W. 1910 & Lombard Governor 1896; pumps, 2-720,000 gal. hor. comp. d. act. Worth.; 1-864,000 gal. hor. Morris 1910 d. con. to elec. motor, 40-hp. 2300 v. 3 ph. 60 cys. G. E. 1910; elec. generators, 2-100 kva. G. E.; pumping to standpipe (1896) 100,000 gal.

Pipe, 10 mi. 6 to 10-in.; hyd. 30, hose con. 2½-in. Bourbon; valves, 10 r. h. opening; av. daily cons. 30,000 gal. 70%; serv. con. 258; ord. pres. 25 to 45 lb., fire pres. 65 to 85 lb.

Rates: flat, $6 year; meter, $1.25 mo., 25c. 1000 gal. max., 10c. min.

BENNETTSVILLE, 2,646.

MUNICIPAL. Bennettsville, S. C. Electric Light & Water Plant.

Mgr. & Supt., E. C. Morrison. Bennettsville
Engr. P'g. Sta., J. F. Suber.... "

Wells, 8 4½-in. 60 ft. deep; ½ mi. from center distribution; reservoir, 300,000 gal.; no purification.

Boilers, 3 return tubular 260-hp. Casey-Hedges; hand stoking; pumps, 2-160,000 gal. Worth.; pumping to elev. tank, 100,000 gal. steel.

Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 73, hose con. 2½-in. Pratt & Cady & Lynchburg; valves, 62 l. h. opening; meters, 285 mostly Pittsburgh; av. daily cons. 175,000 gal.; serv. con. 290; ord. pres. 75 to 80 lb., fire pres. 75 to 125 lb.

Rates: all meter, 25c. 1000 gal. max., 18c. min.

BISHOPVILLE, 1,699.

MUNICIPAL.

Comr., W. E. Stafford.....Bishopville
Comr., J. P. Kilgore..... "
Comr., C. S. Reame..... "
Clerk, W. S. James..... "
Supt., S. P. Sutton..... "

Wells, 2 tubular 6 & 8-in. 250 & 385 ft. deep; near center distribution.

Boilers, 2 return tubular 100 to 125-hp. Ames & H. S. G.; hand stoking; pumps, 3 Worth.; gasoline engines, 80-hp. Power; pumping to reservoir, 17,500 gal.

Hyd. 35; av. daily cons. 65,000 gal.; serv. con. 1200; ord. pres. 40 to 50 lb., fire pres. 40 to 75 lb.

CAMDEN, 3,569.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
L. S. Baxter.....Camden

Creek; 2 mi. from center distribution; settling & coagulating basin, 50,000 gal.; slow sand filters, 2-504,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Boilers, 2 water-tube 190-hp. ea. Erie; pumps, 2-64,000 gal. Canton; elec. motors, 37 kw. 3 ph. 60 cys. Westg.; pumping to standpipe (1914) steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. R. D. W.; valves, 12 r. & l. h. thd. Crane; meters, 550 Pittsburgh; av. daily cons. 170,000 gal.; serv. con. 550; ord. pres. 55 to 85 lb., fire pres. 65 to 100 lb.

Rates: all meter, 40c. 1000 gal. max., 15c. min.

CHARLESTON, 58,833.

CHARLESTON LIGHT & WATER Co.

Pres., A. H. S. Post.....Baltimore, Md.
V. Pres., P. H. Gadsden..... Charleston
Treas., Mrs. J. D. Hardy..... "
Supt., Jesse M. Worthen..... "
Cons. Engr., J. W. Ledoux,
112 No. Broad St.....Philadelphia, Pa.
Engr. P'g. Sta., H. Ulrichsen.... Charleston

Impounding reservoir on Goose Creek, 3,000,000,000 gal.; 13 mi. from center dis-

tribution; storage reservoirs, 4,300,000 gal.; settling & coagulating basins, 2-5,000,000 gal.; mech. filters, 12-6,000,000 gal.; chemicals, sulphate of alumina and lime.

Boilers, 3 water-tube 300-hp. Sterling; hand stoking; pumps, 5-23,000,000 gal. Snow & Worth., 1-5,000,000 gal. centrifugal Worth. d. con. to elec. motor, 550 v. 2 ph. 60 cys.; pumping direct & to reservoir, 2,000,000 gal.

Pipe, 58 mi. 4 to 30-in. c. i.; hyd. 642, hose con. 2½-in. various; valves, 600 r. h. thd. mostly Ludlow; meters, 700 various; av. daily cons. 6,400,000 gal.; serv. con. 5,000; ord. pres. 20 to 50 lb., fire pres. 40 to 50 lb.

Rates: flat, $2 quarter; meter, 25c. 1,000 gal. max., 7½c. min.

CHERAW, 2,873.

MUNICIPAL.

Comr., Wm. Godfrey.....Cheraw
Comr., G. W. Duvall..... "
Comr., L. A. Meiklejohn..... "
Sec., D. L. Tillman..... "
Supt., Jno. D. Smith..... "
Cons. Engr., Gilbert C. White.... Charlotte
Chemist, Dr. Boyden Mima..... Columbia

Pee Dee River; one mi. from center distribution; settling basins, 700,000 gal.; coagulating basins, 720,000 gal.; mech. filters, 2-720,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Pumps driven by gasoline engines, 40-hp. National & elec. motors, four 107.5-hp. 220 v. 3 ph. 60 cys. Westg.; elec. energy from Yadkin Power Co.; pumping to elev. tank, 100,000 gal. steel.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 42, hose con. 2½-in. Columbian; valves, 48 r. h. thd. Columbian; meters, 130 Pittsburgh; av. daily cons. 30,000 gal.; serv. con. 130; ord. pres. 50 to 60 lb., fire pres. same.

Rates: all meter, min. charge $1 mo., 27c. 1000 gal. max., 10c. min.

CHESTER, 4,755.

MUNICIPAL.

Chmn. Comrs., J. H. Glew.....Chester
Comr., P. F. Sission..... "
Comr., J. B. Wisdorouk..... "
Treas., James Hameton..... "
Chemist, Boyden Nums..... "

Impounding reservoir on Sandy River; 3 mi. from center business section; settling & coagulating basin, 100,000 gal.; mech. filters, 720,000 gal. Roberts; chemical, sulphate of alumina & soda ash.

Boilers, hor. 40 & 110-hp. 100 lb. Erie 1904; pumps, 2-1,000,000 gal. hor. duplex Worth. 1914; 3-1,000,000 gal. hor. Worth. 1910 d. con. to elec. motors, 3 50-hp. 2300 v. 3 ph. 60 cys. G. E.; pumping direct & standpipe (1897) 150,000 gal.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 90, hose con. 2½-in.; meters, 400 various; av. daily cons. 300,000 gal.; serv. con. 550; ord. pres. 60 to 100 lb., fire pres. same.

Rates: meter, $1 for 2500 gal., 40c. 1000 gal. max., 15c. min.

CLINTON, 3,272.

MUNICIPAL.

Mayor, J. R. Copeland..... Clinton
Supt. & Engr. P'g. Sta., B. B. Mills. "

Wells, three 10-in. 550 ft. deep; ½ mi. from center distribution; reservoir, 250,000 gal.

Boilers, 2 hor. 165-hp. W. & W.; hand stoking; pumps, two 6x4x6 Worth.; air compressors, 2 Clayton driven by elec. motors, 10 & 35 kw. 220 v. 3 ph. 60 cys. Ft. Wayne; pumping to standpipe (1904) iron.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 165, hose con. 2½-in. Glamorgan; valves, 75 r. h. thd. Glamorgan; meters, 400 Pittsburgh; av. daily cons. 3,000 gal.; serv. con. 400; ord. pres. 40 lb., fire pres. 150 lb.

Rates: flat, 50c. mo.; meter, 30c. 1,000 gal. max., 10c. min.

COLUMBIA, 26,319.

MUNICIPAL.

Mayor, L. A. Griffith..... Columbia
Comr., E. M. Du Pre..... "
Supt., F. C. Wyse..... "
Cons. Engr., G. H. White....Durham, N. C.
Engr. P'g. Sta., John Irwin..... Columbia
Chemist, W. O. Kibble..... "

Congaree River; 1.5 mi. from center distribution; settling & coagulating basins, 4-60,000 gal.; mech. filters, 6-7,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & lime.

Boilers, 4 hor. tubular 600-hp. Cole; hand stoking; pumps, 2-5,000,000 gal. Worth., 2-3,500,000 gal. Deane driven by water-turbines, 2-12,000,000 gal. Deane driven by water-turbines; pumping to reservoir, 1,000,000 gal. & standpipe (1906).

Pipe, 48 mi. 4 to 30-in. c. i.; hyd. 371, hose con. 2½-in. R. D. W. & Columbian; meters, 3,000 Pittsburgh; av. daily cons. 4,250,000 gal.; serv. con. 3100; ord. pres. 43 to 125 lb., fire pres. same.

Rates: all meter, min. charge $8 year, 15c. 1000 gal. max., 8c. min.

DARLINGTON, 3,789.

CAROLINA CENTRAL ELECTRIC CO. Office, Florence.

Pres., D. T. McKeithan..... Darlington
V. Pres., J. W. McCown..... Florence
Sec.-Treas., G. E. Dargan..... Darlington
Asst. Supt., C. L. Romedy..... "
Des. Engr., F. G. Gorfroy..... Florence
Engr. P'g. Sta., C. E. Hatchett.. Darlington

Wells, 2 tubular 8-in. 330 ft. deep; near center business section; settling basin, 500,000 gal.; mech. filters, 500,000 gal. Scaife; chemical, sulphate of alumina.

Boilers, 3 fire-tube 150-hp. 125 lb. Erie 1912; pumps, 2-500,000 gal. hor. act. Deane 1910; 1-580,000 gal. hor. centrifugal Buffalo 1914 d. con. to elec. motors, two 25-hp. 220 v. 3 ph. 60 cys. G. E. 1914; pumping to elev. tank (1898) 90,000 gal. steel, Georgia Iron Works.

Pipe, 12 mi. 6 to 10-in. c. i.; hyd. 65, hose con. 2½-in. Glamorgan & Pittsburgh;

valves, 40 l. h. opening various; meters, 400 Pittsburgh; av. daily cons. 100,000 gal. 90%; serv. con. 465; ord. pres. 45 lb., fire pres. same.

Rates: meter, 50c. mo. 200 gal., 10c. 1000 gal. max., 15c. min.

DILLON, 1,757.

MUNICIPAL.

Chmn. Comrs., M. A. Stubbs..... Dillon
Comr., T. S. Richbourg..... "
Comr., J. M. Rodgers..... "
Supt. & Chemist, W. N. Crow..... "
Engr. P'g. Sta., W. M. Butler..... "

Pee Dee River; 2 mi. from center distribution; infiltration gallery, 8x10x12 ft.; settling & coagulating basin, 1000 gal.; slow sand filter, 1000 gal.; chemicals, sulphate of alumina & soda ash.

Boilers, 2 fire-tube 225-hp.; hand stoking; pumps, 2-720,000 gal. Platt; elec. motors, 35 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to elev. tank, 65,000 gal. iron.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 36, hose con. 2½-in.; valves, 20 r. h. thd.; meters, 100 Neptune; av. daily cons. 35,000 gal.; serv. con. 100; ord. pres. 50 to 57 lbs., fire pres. same.

Rates: all meter, min. charge $1 mo., 30c. 1000 gal.

DUE WEST, 672.

DUE WEST WATER CO.

Sec. & Treas., O. Y. Brownlee....Due West
Supt., R. H. Brice..... " "

Artesian well, 186 ft. deep.

Pump, Kewanee driven by gasoline engines, 4-hp. Foos; pumping to underground tanks, 7000 gal. iron.

Av. daily con. 1500 gal.; serv. con. 12; ord. pres. 60 lb.

Rates: meter, 35c. 1000 gal.

FLORENCE, 7,057.

MUNICIPAL.

Mayor, W. R. Barringer..... Florence
Comr., C. E. Commander..... "
Comr., T. P. Spencer..... "
Comr., J. N. Johnston..... "
Supt., McKean Moffitt..... "
Engr. P'g. Sta., J. C. Martin..... "
Chemist, F. S. Parker, Jr..... Charleston

Wells, 2 tubular 6 & 8-in. 125 & 1150 ft. deep; at center distribution; reservoir, 625,000 gal. steel; chemical, hypochlorite of lime.

Boilers, one water-tube 350-hp. Casey-Hedges, 2 fire-tube 350-hp. Atlas; hand stoking; pumps, 2-500,000 gal. ea. Worth; pumping to elev. tank, 100,000 gal. steel.

Pipe, 14.7 mi. 4 to 12-in. c. i.; hyd. 145, hose con. 2½-in. Rensselaer & Columbian; valves, 126 l. h. thd. various; meters, 850 various; av. daily cons. 537,000 gal.; serv. con. 1150; ord. pres. 50 to 60 lb., fire pres. 60 to 120 lb.

Rates: flat, 50c. mo.; meter, 25c. 1000 gal. max., 10c. min.

GRANITEVILLE, 1,000.

GRANITEVILLE MFG. CO.

Supt., W. A. Giles..... Graniteville
Engr. P'g. Sta., S. F. Devlin... "
Chemist, Boyden Mims..... "

Springs & river; one mi. from center distribution.

Pumps, 2-1,440,000 gal. ea. Underwriters; elec. motors, 16 kw. 220 v. 3 ph. 60 cys.; elec. energy from Carolina Light & Power Co.; pumping to reservoirs, three 560,000 gal.; hyd. 75; ord. pres. 83 lb.

GREENVILLE, 13,741.

THE PARIS MOUNTAIN WATER CO. (Controlled by American Pipe & Construction Co., 112 No. Broad St., Philadelphia, Pa. For general officers, see Philadelphia.)

Supt., H. W. Perry.....Greenville

Mountain stream; mech. filters.

Boilers, two 50 & 70-hp.; pumps, 2-1,000,000 gal. Snow; pumping to reservoir, 188,000,000 gal. & standpipe, 477,000 gal. steel.

Pipe, 59.8 mi. 4 to 24-in.; hyd. 207; valves, 425; meters, 3177; av. daily cons. 1,200,000 gal.; serv. con. 3627; ord. pres. 30 to 90 lb.

HARTSVILLE, 2,365.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
J. A. Tynes.....Hartsville
Chemist, D. Parker..... Columbia

Impounding reservoir, 3,000,000 gal. & well, 6-in. 287 ft. deep; ½ mi. from center business section; no purification.

Boilers, 2 tubular 60-hp. 100 lb. Cole 1906; hand stoking; pumps, 1-1,080,000 gal. hor. simple d. act. Platt 1906, 1-1,080,000 gal. hor. comp. d. act. Platt 1906; pumping to elev. tank (1906) 95,000 gal. steel, Cole Mfg. Co.

Pipe, 7 mi. 6 & 8-in. c. i.; hyd. 51, hose con. 2½-in. Platt; valves, 29 l. h. opening Pratt & Cady; meters, 265 Neptune; av. daily cons. 125,000 gal. 95%; serv. con. 265; ord. pres. 52 to 56 lb., fire pres. 100 lb.

Rates: meter, $1 mo. 3300 gal.

HONEA PATH, 1,762.

MUNICIPAL.

Chmn. Comrs., P. W. Sullivan. Honea Path
Comr., F. H. Hudgens..... " "
Comr., J. W. Abercrombie..... " "
Supt. & Engr. P'g. Sta.,
J. A. Featherston..... " "
Cons. Engr., T. W. Cothran.....Greenwood

Artesian well, 6-in. 300 ft. deep; near center distribution; reservoirs, two 50,000 gal. each.

Boiler, tubular 125-hp. Erie; hand stoking; pumps, 1-84,600 gal. Rumsey belted to elec. motor, 40-hp. 2200 v. 3 ph. 60 cys. Westg.; air compressor, Westg.; pumping direct & to elev. tank, 75,000 gal. w. i.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 26, hose con. 2-in. U. S.; valves, 32 r. h. thd. Crane; meters, 53 Worth.; av. daily cons. 10,000

gal.; serv. con. 53; ord. pres. 50 lb., fire pres. 50 to 100 lb.

Rates: all meter, 40c. 1000 gal. max., 30c. min.

KERSHAW, 950.

MUNICIPAL.

Chmn. Comrs. & Supt., J. R. Faile, Kershaw
Comr., R. L. Sowell..... "
Comr., C. O. Floyd..... "
Cons. Engr., L. E. Truesdel..... "
Engr. P'g. Sta., James Barfield.... "

Artesian well, 8-in. 467 ft. deep; near center distribution; reservoir, 30,000 gal.; no purification.

Boiler, return tubular 60-hp. Cole; hand stoking; pumps, 1-288,000 gal. steam Deane, 1-288,000 gal. triplex Goulds belted to steam engines, 12-hp. Troy automatic; pumping to elev. tank, 20,000 gal.

Hyd. 40, hose con. 2½-in.; valves, 7 r. & l. h. thd.; meters, none; av. daily cons. 20,000 gal.; serv. con. 250; ord. pres. 30 to 47 lb., fire pres. 47 to 125 lb.

Rates: flat, $2.25 quarter.

LAURENS, 4,818.

MUNICIPAL.

Mayor, C. M. Babt.....Laurens
City Clerk, C. W. Kitchens..... "
Supt., J. E. Philpot..... "
Engr. P'g. Sta., H. L. Blount..... "
Chemist, Dr. Francis L. Parker, Jr., 40 Broad St., Charleston, S. C.

Little River; ¼ mi. from center distribution; settling & coagulating basin, 20x30 ft.; slow sand filters, 100,000 gal.; chemicals, sulphate of alumina.

Boilers, 2 hor. 75-hp. Lombard; hand stoking; pumps, 3-100,000 gal. Buffalo; elec. motors, 75 & 215-hp. 3 ph. 60 cys. Allis-Chalmers & G. E.; elec. energy from municipal plant & Reedy River; pumping direct & to reservoir, 30x110ft.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 2½-in.; meters, 900 various; av. daily cons. 75,000 gal.; serv. con. 900; ord. pres. 60 lb., fire pres. 60 to 120 lb.

Rates: meter, 25c. 1000 gal.

MARION, 3,844.

CAROLINA CENTRAL ELECTRIC CO. Office, Florence. For executive officers see Darlington.

Loc. Supt., I. B. Hughes.....Marion
Engr. P'g. Sta., G. E. Lupo..... "

Wells, 3 tubular 8-in. 120 ft. deep; ¼ mi. from center business section; no purification.

Boilers, 3 fire-tube 80 & 150-hp. 130 lb. W. & W. 1914, Atlas 1903 & Marion 1908; pumps, 2-115,200 gal. d. act. 1909-11, 1-144,000 gal. d. act. Downie 1903, 1-432,000 gal. comp. duplex Deane 1909, 1-432,000 gal. duplex Worth. 1906; pumping to standpipe (1903) 90,000 gal. steel.

Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 70, hose con. 2½-in. Glamorgan, Lynchburg & R. D. W.; valves, 30 l. h. opening American; meters, 290 Pittsburgh; av. daily cons. 75,000 gal.; serv. con. 310; ord. pres. 30 to 40 lb., fire pres. 80 to 100 lb.

Rates: flat, 89c. mo. 2500 gal., 40c. 1000 gal max., 30c. min.

NEWBERRY, 5,028.

MUNICIPAL WATERWORKS & ELECTRIC LIGHT PLANT.

Chmn. Comrs., M. L. Spearman..Newberry
Comr., W. F. Ewart..... "
Comr., H. W. Dominick..... "
Supt., H. W. Schumpert..... "
Engr. P'g. Sta., J. O. Dunstan.... "

Wells, 2 tubular 5-in. 300 ft. deep; ¾ mi. from center distribution; reservoir, 160,000 gal.; no purification.

Boilers, 3 fire-tube 260-hp. Lombard; hand stoking; pumps, 1-1,080,000 gal. Worth., one centrifugal fire pump driven by elec. motor, 100-hp. 2200 v. 3 ph. 60 cys. G. E.; air compressor driven by elec. motor, 65 hp. 2200 v. 3 ph. 60 cys. G. E.; elec. energy from Southern Power Co. of Charlotte, N. C.; pumping direct & to standpipe, steel.

Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 100, hose con. 2½-in. Columbian & R. D. W.; valves, 55 r. h. thd.; meters, 400 National, Pittsburgh & Thomson; av. daily cons. 200,000 gal.; serv. con. 550; ord. pres. 60 to 75 lb., fire pres. 60 to 130 lb.

Rates: flat, 62c. mo.; meter, min. charge 50c. mo., 25c. 1000 gal. max., 17½c. min.

NORTH AUGUSTA, 1,136.

AUGUSTA-AIKEN RAILWAY & ELECTRIC Co.

Pres., F. O. Brown..... Augusta, Ga.
V. Pres., J. H. Pardee..... " "
Sec. & Treas., D. H. Thomas.. " "
Supt., Frank E. Courtney.... " "
Engr. P'g. Sta.,
W. W. Moore.....North Augusta, S. C.

Springs; ½ mi. from center distribution; settling basins, 2-200,000 gal.; no purification.

Pumps, 1-218,000 gal. Deane, 1-183,000 gal. Deane driven by elec. motors, 15-hp. 220 v. 2 ph. 60 cys. Wagner & 20-hp. 220 v. 2 ph. 60 cys. G. E.; pumping direct, to reservoir, 180,000 gal. & standpipe (1900) steel.

Pipe, 4.1 mi. 1¼ to 6-in. c. i.; hyd. 29, hose con. 2½-in.; av. daily cons. 155,000 gal.; serv. con. 250; ord. pres. 30 to 140 lb.

Rates: flat, min. 75c. quarter.

ORANGEBURG, 5,906.

MUNICIPAL.

Supt., James E. Salley.....Orangeburg

Wells, 6 tubular 2 to 8-in. 200 ft. deep; one mi. from center business section.

Boilers, 3 return tubular 100-hp. Lombard Governor & Brownell; hand stoking; pumps, 2-1,080,000 gal. L-D-G; pumping to standpipe (1898).

Pipe, 13.5 mi. c. i.; hyd. 132, hose con. 2½-in. Rensselaer; valves, l. h. thd.; meters, 375 various; av. daily cons. 230,000 gal.; serv. con. 650; ord. pres. 40 to 45 lb., fire pres. 40 to 120 lb.

Rates: meter, 25c. 1000 gal. max., 20c. min.

ROCK HILL, 7,216.

MUNICIPAL.

Chmn. Comrs., J. B. Johnson.... Rock Hill
Comr., F. C. Whitney..... " "
" J. W. O'Neil..... " "
Supt., J. G. Barnwell..... " "
Engr. P'g. Sta., J. T. Goggans.... " "

Catawba River; 5.5 mi. from center distribution; settling basins, 175,000 gal.; mech. filters, 2-504,000 gal. ea.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Pumps driven by elec. motors, 350 kw. 550 & 2300 v. 3 ph. 60 cys. G. E. & Westg.; elec. energy from Southern Power Co.; pumping to standpipe (1895) iron.

Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 78, hose con. 2½-in. R. D. W.; valves, 88 l. h. thd. Gen. Fire; meters, 748 Pittsburgh; av. daily cons. 1,000,000 gal.; serv. con. 800; ord. pres. 40 to 50 lb., fire pres. 80 to 100 lb.

SPARTANBURG, 17,517.

MUNICIPAL.

Supt., S. A. Bush.....Spartanburg
Engr. P'g. Sta., R. A. Jeffreys.. "

Impounding reservoir, 4,000,000 gal. on Chinquapin Creek; 1.5 mi. from center business section; coagulating basin, 240,000 gal.; mech. filters, 2,000,000 gal. Jackson & Greer; chemicals, sulphate of alumina & lime.

Boilers, one water-tube 125-hp. 140 lb. Erie 1909, one return tubular 160-hp. 140 lb. Valk & Mudrick 1911, 1-2,000,000 gal. d. act. Prescott 1909, 2-1,000,000 gal. hor. comp.; pumping to standpipe (1891) 272,000 gal.

Pipe, 30 mi. 4 to 14-in. c. i.; hyd. 233, hose con. 2½-in. R. D. W.; valves, 100 r. h. opening various; meters, 1200 Thomson; av. daily cons. 1,250,000 gal.; serv. con. 2500; ord. pres. 40 to 102 lb., fire pres. 75 to 130 lb.

Rates: flat, $6 year, bath $3, closet $4; meter, 30c. 1000 gal. max., 5c. min.

SUMTER, 8,109.

MUNICIPAL.

City Mgr., Wm. F. Robertson..... Sumter
Supt., W. W. McKagen..... "
Engr. P'g. Sta., August Schilling.... "
Chemist, D. Francis L. Parker,
40 Broad St., Charleston, S. C.

Wells, 15 tubular 6-in. 50 to 400 ft. deep; one mi. from center distribution; no purification.

Boiler, tubular 80-hp.; hand stoking; pumps, 5-3,240,000 gal. 2 Davidson, one Platt & 2 Deane driven by elec. motors, two 15-hp.; pumping direct & to standpipe (1893) iron.

Pipe, 11 mi. 4 to 12-in. cement & c. i.; hyd. 115, hose con. 2½-in. Ludlow; valves, 73 l. h. thd. Ludlow; meters, 935 National, Pittsburgh, Hersey & Neptune; av. daily cons. 475,000 gal.; serv. con. 1243; ord. pres. 45 to 60 lb., fire pres. same.

Rates: flat, $8 year; meter, 25c. 1000 gal. max., 8c. min.

TIMMONSVILLE, 1,708.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
E. J. Lynch.....Timmonsville
Chemist, Dr. F. L. Parker..... Charleston

Impounding reservoir, 150,000 gal. & well, 10-in. 526 ft. deep; settling basin, 50,000 gal.

Boiler, return tubular 100-hp. 100 lb. Cole 1911; hand stoking; pumps, 1-50,000 gal. hor. comp. d. act. Platt 1911; air compressors, 2 Platt 1911-14; pumping to elev. tank (1911) 10,000 gal. steel, Cole Mfg. Co.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 57, hose con. 2½-in. Columbia; valves, 150 l. h. opening Lynchburg; meters, 120 Neptune; av. daily cons. 15,000 gal.; serv. con. 179; ord. pres. 50 to 60 lb., fire pres. 60 to 100 lb.

Rates: meter, 75c. mo. 1666 gal., 30c. 1000 gal.

UNION, 5,633.

MUNICIPAL.

Supt. & City Engr., R. A. Easterling, Union

Stream; 3 mi. from center distribution; settling & coagulating basin, 200,000 gal.; slow sand filter, 1,000,000 gal.; chemical, sulphate of alumina.

Boilers, 3 hor. tubular 150-hp. Lombard; hand stoking; pumps, 2-500,000 gal. Worth.; 2-250,000 gal. Worth.; elec. motor, 75 kw. 2300 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1898) 250,000 gal. iron.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 80, hose con. 2½-in. Michigan; valves, 106; meters, 290 National; av. daily cons. 310,000 gal.; serv. con. 390; ord. pres. 40 to 60 lb., fire pres. 100 lb.

Rates: all meter, 30c. 1000 gal. max., 11c. min.

YORKVILLE, 2,326.

MUNICIPAL. Board of Public Works.

Chmn. Comrs., Dr. W. G. White..Yorkville
Comr., J. E. Lowry..... "
Supt., J. O. Wray..... "
Engr. P'g. Sta., D. Murray..... "

Impounding reservoirs, 2-360,000 gal.; settling basin, 100,000 gal.; coagulating basin, 30,000 gal.; mech. filter, 1-432,000 gal. Roberts; chemical, sulphate of alumina & soda ash.

Boilers, two 80-hp.; pumps, 1-432,000 gal. comp. simple 1983, one centrifugal, driven by elec. motors, two 3 & 5-hp. 220 v. 3 ph. a. c. 60 cys. G. E.; pumping to standpipe (1893) 70,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 50, hose con. 2½-in. Eddy & Columbian; valves, 10 r. h. opening Eddy & Columbian; meters; 195 Columbian, Gamon & Pittsburgh & Thomson; av. daily cons 150,000 gal.; serv. con. 198; ord. pres. 65 to 75 lb., fire pres. 75 to 100 lb.

Rates: meter, 60c. mo. 300 cu. ft., 20c. 100 cu. ft.

SOUTH DAKOTA

ABERDEEN, 10,753.
MUNICIPAL.
Com., G. P. Fletcher.....Aberdeen
Supt. & City Engr., R. B. Easton. "
Engr. P'g. Sta., F. Locq..... "
Artesian wells, 12 to 1400 ft. deep; near center distribution; no purification.
Pumps, 3-1,440,000 gal. ea, Platt d. con. to elec. motors, 3-100-hp. ea. 2300 v. 3 ph. 60 cys. G. E.; elec. energy from Aberdeen Light & Power Co.; pumping for fires only, distribution by d. press. from wells.
Pipe, 24.6 mi. 4 to 16-in.; hyd. 155; valves, 144; meters, 1,000 Hersey & Pittsburgh; av. daily cons. 1,400,000 gal.; serv. con. 2,000; ord. pres. 10 to 50 lb., fire pres. 80 lb.

ARLINGTON, 791.
MUNICIPAL.
Supt., R. W. Nash.....Arlington
Wells, 6-in. 365 ft. deep.
Pump, driven by gasoline engine, 15-hp. Otto; pumping to reservoir.
Hyd. 15, hose con. 4-in.; meters, 50 Neptune; serv. con. 60; ord. pres. 60 lb., fire pres. 55 lb.
Rates: flat, $6 year; meter, 20c. 1000 gal.

BELLEFOURCHE, 1,352.
MUNICIPAL.
Comr., Wm. Lefois.....Bellefourche
Comr., J. A. Kemnfect..... "
Mayor, J. S. Soutts..... "
Supt., Dan J. Arnold..... "
Red Water River; pumps, 2 driven by elec. motors, 2 220 v. 3 ph. 60 cys. G. E. & Wagner; elec. energy from Consolidated Power & Light Co.; pumping to reservoir, 300,000 gal.
Pipe, 2 mi. 4 to 10 c. i.; hyd. 36, hose con. 2½-in. Kupferle; valves, 28 Crane; meters, 25 Keystone; serv. con. 194; ord. pres. 50 lb.
Rates: flat, $1.50 mo.

BONESTEEL, 563.
MUNICIPAL.
Mayor, J. P. Ryan.....Bonesteel
Treas., S. M. Lindley..... "
Supt., James Sebesta..... "
Audr., C. F. Jewell..... "
Engr. P'g. Sta., E. C. Schmidt.... "
Wells, 100 ft. deep; no purification.
Pumps, 2 driven by gasoline engines, 2 8 & 25-hp.; pumping to elev. tanks, 2-75,000 gal. steel.
Hyd. 12, hose con. 2½-in.; serv. con. 125; ord. pres. 65 lb.

BRISTOL, *600.
MUNICIPAL.
Supt., J. T. Steile.....Bristol
Des. Engr., A. E. Landern..... "
Engr. P'g. Sta., G. J. Jensen..... "
Well, 8-in. 390 ft.deep; ¼ mi. from center distribution.
Pump, 1-108,000 driven by gasoline 15-hp. F. M.; pumping to pressure tank.
Pipe, one mi. 4 to 12-in. c. i.; hyd. 10, hose con. 3-in.; av. daily cons. 12,600 gal.; serv. con. 60; ord. pres. 30 to 70 lb., fire pres. same.

BURKE, 311.
MUNICIPAL.
Supt., Wm. Emery.....Burke
Well, 10-in. 132 ft. deep.
Pump, one Deming belted to gasoline engine, 8-hp. F. M.; pumping to elev. tank, 40,000 gal. steel.
Pipe, one mi. 4 to 12-in. c. i.; hyd. 15, hose con. 2-in.; valves, 5 r. h. thd.; meters, 5 Buffalo; av. daily cons. 10,000 gal.; serv. con. 40; ord. pres. 40 lb., fire pres. 43 lb.
Rates: flat, 50c. mo.; meters, 75c. 1000 gal.

CANISTOTA, 409.
MUNICIPAL.
Chmn. Comrs., C. W. Beck.....Canistota
Comr., Geo. Dawson..... "
Comr., Fred Hoas..... "
Vil. Clerk, H. O. Kruschke..... "
Supt., C. J. Necker..... "
Artesian well, 6-in. 235 ft. deep; at center distribution.
Pumps, 1-15,000 gal. vert. Deming 1910 belted to gasoline engine, 8-hp. F. M. 1910; pumping to elev. tank (1910), 40,000 gal. iron.
Pipe, 4,000 ft. 4 to 8-in.; hyd. 11, hose con. 2½-in. Clow; valves, 3 r. h. opening Clow; av. daily cons. 10,000 gal.; serv. con. 26; ord. pres. 45 lb., fire pres. same.

CANTON, 2,103.
MUNICIPAL.
Supt., H. Happen.....Canton

CHAMBERLAIN, 1,275.
MUNICIPAL.
Comr., E. E. Crisp.....Chamberlain
Engr. P'g. Sta., Henry Douvall "
Missouri River & well, 10 ft. in diam. 16 ft. deep; near center distribution; settling basin, 318,000 gal.
Pumps, 2-504,000 gal. ea. triplex Goulds belted to gasoline engines, 240-hp. F. M., 1-1,440,000 gal. centrifugal; pumping to reservoir, 68,000 gal.
Hyd. 20, hose con. 3-in.; meters, 230 Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 230; ord. pres. 60 to 100 lb., fire pres. same.
Rates: meter, min. charge $4 year 36,000 gal., 10c. 1000 gal.

CLARK, 1,220.
MUNICIPAL.
Mayor, J. E. Platt.....Clark
Audr. & Mgr., J. E. Smith..... "
Treas., W. M. Arpin..... "
Engr. P'g. Sta., W. J. Dickey..... "

Well, 6-in. 506 ft. deep; near center distribution.

Pumps, 1-144,000 gal. National driven by gasoline engine, 25-hp. F. M.; pumping direct.

Hyd. 22, hose con. 2½-in.; meters, 128 Pittsburgh; serv. con. 118; ord. pres. 75 lb., fire pres. 75 to 90 lb.

Rates: meter, min. charge $2 for 5,000 gal., 40c. 1000 gal. max., 30c. min.

CLEAR LAKE, 704.

MUNICIPAL.

Mayor, Oscar Carlson..... Clear Lake
Sec., T. S. Vaught..... " "
Engr. P'g. Sta., Wm. Palmer.... " "

Well, 10 ft. diam. 35 ft. deep; ¼ mi. from center distribution; pumps, 1-288,000 gal. driven by gasoline engine, 20-hp. F. M. 1904; pumping to pneumatic tanks, 2-38,000 gal.

Pipe, 1.5 mi. 6-in. c. i.; hyd. 20, hose con. 2½-in. Crane & Ordway; valves, 8 r. h. opening; meters, 80 Pittsburgh; av. daily cons. 12,500,000 gal.,; serv con. 80 lb.; ord. pres. 40 to 90 lb., fire pres. same.

Rates: meter, 25c. 1,000 gal.

COLOME, 700.

MUNICIPAL.

Supt., M. Cunningham.....Colome
Vil. Clerk, P. E. Bingham..... "

Wells, 3 open 2 ft. in diam. 75. ft. deep; no purification.

Pump driven by gasoline engine, 12-hp. F. M.; pumping to standpipe (1909) steel.

Pipe, 0.9 mi. 4 to 12-in. c. i.; hyd. 14, hose con. 2½-in.; valves, 6 r. h. thd.; meters, 22 Buffalo; av. daily cons. 4,000 gal.; serv. con. 35.

CORSICA, 286.

MUNICIPAL.

Chmn. Comrs., E. H. Symons..... Corsica
Comr., Fred Leuchsinger..... "
Comr., J. Sheeder..... "
Town Clerk, H. L. Nixon..... "
Supt. & Engr. P'g. Sta., W. G. Stolt. "

Well, 6-in. 350 ft. deep; no purification.

Pump, one F. M. driven by gasoline engines, 6-hp. F. M.; pumping to elev. tank (1907) 15,000 gal. wood.

Hyd. 15, hose con. 3-in. F. M.; meters, none; av. daily cons. 4,000 gal.; serv. con. 60 ord. pres. 47 lb., fire pres. same.

Rates: flat, $10 year.

DEADWOOD, 3,653.

MUNICIPAL.

Mayor, N. E. Franklin..... Deadwood
City Auditor, K. W. Trimble.... "

Spearfish Creek; gravity distribution from elev. tanks, 2 (1898) 300,000 gal. wood.

Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 76, hose con. 2½-in.; valves, 75 r. & l. h. opening Eddy & Ludlow; meters, 80 National & Pittsburgh; serv. con. 550; ord. pres. 90 lb., fire pres. same.

Rates: meter, 33⅓c. 1000 gal. max., 5c. min.

ESTERLINE, 509.

MUNICIPAL.

Supt., E. J. Converse.....Esterline
Vil. Clerk, Allman Fjerstad..... "

Well, 16 ft. in diam. 18 ft. deep; at center distribution; reservoir, 15,000 gal.; no purification.

Pump, belted to gasoline engine, 20-hp. F. M.; pumping to air pressure tank.

Pipe, 1.5 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 2½-in. Waterous & Eddy; valves, 9 Crane; meters, 40 Crane; ord. pres. 70 to 80 lb., fire pres. same.

Rates: flat, $1.50 quarter; meters, min. charge $1.50 quarter, 1000 cu. ft., 10c. 100 cu. ft.

FAULKTON, 802.

MUNICIPAL.

City Auditor, Geo. E. Stoddard.....Boston

FLANDREAU, 1,484.

MUNICIPAL.

Supt., Alton Locke.....Flandreau

FREDERICK, 433.

MUNICIPAL.

Supt., L. O. Dickey.....Frederick

Artesian wells; pipe, 2 mi. 4-in.; ord. pres. from wells, 125 lb.

GETTYSBURG, 936.

MUNICIPAL.

Mayor, O. E. Mecik.....Gettysburg
Comr., W. L. French..... "
Comr., W. Shoof..... "
Clerk, R. Richardson..... "
Supt., Frank Millard..... "

Artesian well, 2½-in. 2132 ft. deep; near center business section; reservoir, 6000 gal.

Pumps, 1-48,000 gal. vert. triplex Deming 1912 belted to gas engine; air compressor, Thomson 1903 belted to gas engine; pumping to elev. tank (1912) 4,000 gal. iron., Minneapolis Steel & Machinery Co.

Pipe, 3 mi. 4 & 6-in.; hyd. 16, hose con. 2½-in.; valves, 23 r. h. opening; meters, 60; av. daily cons. 10,000 gal.; serv. con. 60; ord. pres. 43 lb., fire pres. same.

Rates: meter, min. charge $1.50 quarter, 50c. 1,000 gal.

GREGORY, 1,142.

MUNICIPAL.

Supt., Chas. Coburn.....Gregory
City Audr., P. J. Kleinjan..... "

Wells, 3 open 10 to 40 ft. in diam. 40 ft. deep; ½ mi. from center distribution; no purification.

Pumps, 1-144,000 gal. Deming, 1-475,-000 gal. F. M. driven by gasoline engine, 10-hp. F. M. & 20-hp. International; pumping to reservoir, 90,000 gal. & standpipe (1908) concrete.

Av. daily cons. 44,000 gal.; serv. con. 116.

Rates: meter, min. charge 65c. mo., 75c. 1000 gal. max., 4c. min.

GROTON, 1,108.

MUNICIPAL.

Supt., J. L. Frommel.....Groton
City Audr., J. J. Workentin..... "

Artesian well; 6-in. 960 ft. deep; ¾ mi. from center distribution; gravity distribution; ord. pres. 50 to 65 lb., fire pres. same.

HIGHMORE, 1,084.

MUNICIPAL.

Comr., L. D. Wakey.....Highmore
Comr., Max Winger..... "
Clerk, C. H. Drew..... "
Supt. & Engr. P'g. Sta.,
John T. Eperline..... "

Springs and artesian wells, 1700 ft. deep; 92 mi. from center business section; no purification.

Pumps, 1-300,000 gal. hor. F. M. 1906 belted to gas engine 20-hp. F. M. 1906, 1-500,000 hor. triplex F. M. 1910 d. con. to gasoline engine 32-hp.; pumping to elev. tank (1908) 6200 gal. wood & iron; reservoirs, 3-100,000 gall.

Pipe, 4 mi. 2 to 6-in. c. i.; hyd. 22, hose con. 2½-in. Kupferle; valves, 15 l. h. opening; meters, 80 National; av. daily cons. 12,000 gal. 80%; serv. con. 84; ord. pres. 56 to 63 lb., fire pres. same.

Rates: meter, min. charge 50c. mo. 1000 gal.; 50c. 1000 gal. max., 20c. min.

HOT SPRINGS, 2,140.

WATER, LIGHT & POWER COMPANY.

Pres., G. W. Wattles.....Omaha, Nebr.
Sec. Gen. Mgr. & Pur. Agt.,
H. W. Miller.....Hot Springs

Springs & reservoirs, 900,000 gal.; ¾ mi. from center business section, settling basin one; slow sand filters, 364,000 gal.; chemicals, none.

Boilers, hor. 100-hp. 100 lb. Williams 1910; hand stoking; pumps, 1-288,000 gal. vert. triplex Worth. 1907 belted to wtr. wh., 1-576,000 gal. hor. duplex Knowles 1892 belted to wtr wh., 100-hp. Leffel; steam engine, 100-hp. Frost 1910; pumping to standpipe (1914) 900,000 gal.

Pipe, 6.5 mi. 4 to 8-in. c. i.; hyd. 61, hose con. 4-in. Kupferle & Eddy; valves, 15 r. h. opening Crane; meter, 600 Neptune; av. daily cons. 700,000 gal. 90%; serv. con. 648; ord. pres. 110 to 125 lb.; fire pres. same.

Rates: flat, 75c. mo.; meter, min. charge 75c. mo., 30c. 1000 gal. max., 15c. min.

HURON, 5,791.

MUNICIPAL.

Comr., J. C. Madsen.....Huron
Supt., Carl Peterson..... "
Des. Engr., L. G. Walff..... "
Engr. P'g. Sta., Chas. Hayes..... "

James River; ½ mi. from center distribution; mech. filters, 1,500,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 2 tubular 75-hp. Kewanee; hand stoking; pumps, 2-3,000,000 gal. Platt & Blake; elec. motors, 2200 v. 3 ph. 60 cys. Westg.; elec. energy from Huron Light & Power Co.; pumping to elev. tank, 200,000 gal. steel.

Pipe, 8.3 mi. 4 to 12-in. c. i.; hyd. 105, hose con. 2½-in. Waterous & Ludlow; valves, 75 r. h. thd. Eddy & Pratt & Cady; meters, 1150 National; av. daily cons. 500,000 gal.; serv. con. 1200; ord. pres. 45 to 90 lb., fire pres. same.

IPSWICH, 810.

MUNICIPAL.

Supt., John Rogers.....Ipswich

Wells, 4 tubular 2-in. 130C ft. deep; near center distribution.

Pump, 1-482,000 gal. Goulds driven by gasoline engines, 25-hp. F. M. & elec. motor, 15-hp.; pumping to elev. tank, 35,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 44, hose con. 2½-in. Waterous; valves, 20 r. h. thd.; meters, 128 Pittsburgh; av. daily cons. 35,000 gal.; serv. con. 128; ord. pres. 45 lb., fire pres. 100 lb.

Rates: meter, min. charge $12 year 2,000 cu. ft.

LAKE ANDES, 920.

MUNICIPAL.

City Auditor, E. O. Lanan.....Lake Andes
Engr. P'g. Sta.,
J. W. Fireburg..... " "

Well, 355 ft. deep; near center business section; pumps, 1-800,000 gal. vert. single F. M. 1909 belted to gasoline engine, 8-hp. F. M. 1909; pumping to elev. tank (1909) 50,000 gal. wood, Standard Bridge Co.

Pipe, 1.5 mi. 4 to 8-in. c. i.; hyd. 17, hose con. 2½-in. Eddy; valves, 8 l. h. opening Crane; meters, 28 Pittsburgh; av. daily cons. 5000 gal. 50%; serv. con. 35; ord. pres. 35 to 43 lb., fire pres. same.

Rates: flat, $3.00 quarter; meter, min. charge $1.50 quarter 3,000 gal., 50c. 1,000 gal.

MADISON, 3,317.

MUNICIPAL.

Supt., Edward Drasser.....Madison

MILLER, 1,202.

MUNICIPAL.

Mayor, S. V. Ghrist..... Miller
Supt., Edward Corrin..... "

Artesian wells, 3 tubular 4-in. 1145 to 1185 ft. deep.

Pipe, 10 mi. 2 to 6-in. c. i.; hyd. 25, hose con. 2½-in. Eddy; valves, 20 l. h. opening Eddy; meters, none.

Rates: flat, $3.00 quarter.

MITCHELL, 6,515.

MUNICIPAL.

Mayor, A. E. Hitchcock.....Mitchell
Chmn. Comrs., J. O. Walrath..... "
City Audr. & Supt., Thos. Eastcott "
City Engr., S. H. Smith..... "
Engr. P'g. Sta., J. Parsons..... "

Artesian wells, three 5 to 12-in. 525 ft. deep; ¾ mi. from center distribution; no purification.

Boilers, 2 marine & hor. tubular 75 & 100-hp. Aurora & Chandler Taylor; hand stoking; pumps, 1-1,000,000 gal. Prescott, 1-864,000 gal. Cameron, 1-936,000 gal. American; air compressor, Ingersoll-Rand; elec. motor, 35-hp. 2200 v. 3 ph. 60 cys. Sprague; elec. energy from Mitchell Power Co.; pumping direct and to reservoirs, 2-1,190,000 gal.

Pipe, 12.5 mi. 4 to 12-in. c. i.; hyd. 98, hose con. 2½-in. Ludlow & Eddy; valves, 90 mostly r. h. thd. Eddy & Crane; meters, 625 Standard, National & Neptune; av. daily cons. 400,000 gal.; serv. con. 650; ord. pres. 50 to 80 lb., fire pres. 100 to 140 lb.

Rates: meter, min. charge $6 year, 1500 cu. ft., 17c. 100 cu. ft. max., 8c. min.

MOBRIDGE, 1,200.

MUNICIPAL.

Comr., Robert L. Horn..... Mobridge
Supt. & Des. Engr.,
Arthur L. Mannes..... "

Missouri River; 3 mi. from center distribution; settling tanks, 3-20 ft. in diam. 18 ft. deep; chemical, sulphate of alumina.

Boilers, 2 hor. tubular 150-hp.; hand stoking; pumps, 3-1,000,000 gal. Deane; pumping to elev. tank, 108,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 2½-in. Waterous, Pratt & Cady & Iowa; valves, 60 r. h. thd. Western; meters, 275 Neptune; av. daily cons. 600,000 gal.; serv. con. 275; ord. pres. 20 to 45 lb., fire pres. 45 to 100 lb.

Rates: all meter, min. charge $1 mo., 60c. 1000 gal.

MT. VERNON, 614.

MUNICIPAL.

Mayor, W. M. McDonald.....Mt. Vernon
City Auditor, R. A. Cattingham. " "
Supt., C. C. Fitch..... " "

Wells, 2 artesian 8 to 10-in. 115 ft.; near center business section; reservoir, 20,000 gal.; no purification.

Pumps, 1-288,000 gal. hor. triplex F. M. 1904, 1-86,000 gal. F. M., 1-28,800 gal. F. M. all belted to gas engine, 25-hp. F. M. 1904; pumping to tank 14,000 gal.

Pipe, 1.7 mi. 4 to 6-in. c. i.; valves, 8 r. h. opening; meters, 80 Pittsburgh; av. daily cons. 6,000 gal., serv. con. 80; ord. pres. 30 to 60 lb., fire pres. 30 to 200 lb.

Rates: meter, min. charge $6 year 1,000 cu. ft., 34c. 100 cu. ft. max., 24c. min.

PLANKINTON, 712.

MUNICIPAL.

Supt., Richard Stamer.....Plankinton
City Audr., C. E. Goodlod..... "
Des. Engr., R. K. Watson..... "
Engr. P'g. Sta., T. Page..... "

Wells, 2 tubular 300 ft. deep; near center distribution; reservoir, 75,000 gal.

Pumps, 2-360,000 gal. driven by gasoline engines, 7 & 30-hp. International & F. M.; elec. motors, 7-hp. Wagner; pumping to elev. tank (1908) 90,000 gal. steel.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 22, hose con. 3-in. Chapman & Crane; valves, 11 l. h. thd.; meters, 92 Pittsburgh & Neptune; av. daily cons. 50,000 gal.; serv. con. 92; ord. pres. 42 lb., fire pres. same.

Rates: meter, 50c. 1,000 gal.

RAPID CITY, 3,854.

MUNICIPAL.

Mayor, W. E. Robinson.....Rapid City
Comr., J. D. Newcomer..... " "
Comr., Ethan Allen..... " "
Supt., John Hayes..... " "

Mountain spring; 2.5 & 5.5 mi. from center distribution.

Gravity distribution from reservoir, 375,000 gal.

Pipe, 15 mi. 4 to 12-in. c. i. & kalamein; hyd. 90, hose con. 2½-in. Ludlow & Rensselaer; valves, 125 r. h. thd. Ludlow & Rensselaer; meters, 600 various; av. daily cons. 350,000 gal.; serv. con. 850; ord. pres. 70 to 88 lb., fire pres. same.

Rates: flat, min. $3 quarter; meters, min. charge $3 quarter 1,200 cu. ft., 7½c. 100 cu. ft.

SALEM, 1,197.

MUNICIPAL.

Supt., Fred Arlson..... Salem

SHELBY, 558.

MUNICIPAL.

City Auditor, C. A. Potter.....Shelby
Supt. & Engr. P'g. Sta., J. A. Schutte. "

Well, 10 ft. diam. 16 ft. deep; ½ mi. from center business section; no purification.

Pumps driven by gasoline engines, 2 15-hp. ea. F. M. 1910; pumping to compressed air tank, 50,000 gal.

Pipe, 1.25 mi. 4 & 6-in. c. i.; hyd. 15, hose con. 2½-in. Nott; valves, 2 r. h. opening Crane; meters, 64 Neptune & National; av. daily cons. 2250 gal.; serv. con. 64; ord. pres. 60 to 70 lb., fire pres. 60 to 100 lb.

Rates: meter, 80c. 1000 gal.

SIOUX FALLS, 14,090.

MUNICIPAL.

Mayor, G. W. Burns.....Sioux Falls
City Engr., C. D. Howard..... " "
Supt., S. J. Towner..... " "

SPEARFISH, 1,130.

MUNICIPAL.

Comr., S. P. Morrell.....Spearfish
Comr., Wm. Wall..... "
Supt., J. T. L. Henry..... "

Springs, 2; 2 mi. from center distribution with gravity distribution, one at center distribution with pumping; reservoir, 150,000 gal.; no purification.

Pumps, 1-2,160,000 gal. Deming driven by elec. motor, 30-hp. 2200 v. Westg.; elec. energy from Homestake Power Plant; pumping direct.

Hyd. 20, hose con. 2½-in.; valves, 10 r. h. thd. various; av. daily cons. 312,000 gal;

serv. con. 140; ord. pres. 75 to 100 lb., fire pres. 100 to 150 lb.

Rates: flat, $18 year.

SPRINGFIELD, 675.

MUNICIPAL.

Mayor, H. M. Davison.....Springfield
Supt., W. C. Parsons..... "

Artesian wells; at center distribution.

Pump, driven by gasoline engine, 10-hp. International; pumping to elev. tank, 60,000 gal. steel.

Hyd. 12, hose con. 3-in.; meters, none; ord. pres. 25 lb.. fire pres. same.

Rates: flat, $5 year, closet $2.

STURGIS, 1,739.

STURGIS WATER WORKS CO.

Pres. & Gen. Mgr., J. J. Davenport....Sturgis
V. Pres., A. E. Davenport..... "
Sec. & Treas., A. J. Davenport..... "
Supt., Ed. H. Hufendick..... "

Impounding reservoirs from mountain springs, 4-38,000 gal.; 3.5 mi. from center business section; no purification; gravity distribution.

Pipe, 9.5 mi. 4 to 10-in. c. i.; hyd. 54, hose con. 2½-in. Eddy; valves, 30 l. h. opening Eddy; meters, 15 Hersey; av. daily cons. 150,000 gal.; serv. con. 350; ord. pres. 85 lb., fire pres. same.

Rates: flat, $10 year; meter, min. charge $1 mo. 1500 gal., 60c. 1000 gal. max., 20c. min.

VEBLEN, 173.

MUNICIPAL.

Mayor, J. B. Holsey.....Veblen
Auditor, E. J. Rodine..... "
Cons. Engr., A. J. Mather.....Mitchell

Springs; 2.5 mi. from center business section; settling basin; gravity distribution.

Pipe, 2.5 mi. 6-in. wood.

VERMILLION, 2,187.

MUNICIPAL.

Comr., Geo. H. Harris..... Vermillion
Supt., Joseph Grace..... "
Cons. Engr., Maurier Brown.... "

Wells, 2 tubular 12-in. diam. 67 ft. deep; near center distribution.

Pumps, 2-280,000 gal. vert. triplex Goulds 1912 belted to gas engines, two 40-hp. ea. F. M. 1912; pumping to elev. tank (1912) 100,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 9.5 mi. 4 to 8-in. wood; hyd. 71, hose con. 2½-in. Holly & Eddy; valves, 35 r. h. opening; meters, 346 National; av. daily cons. 125,000 gal. 70%; serv. con. 352; ord. pres. 50 lb., fire pres. 50 to 150 lb.

Rates: meter, min. charge 60c. mo. 1925 gal., 30c. 100 cu. ft. max., 20c. min.

WAKONDA, 326.

MUNICIPAL.

Pres. Trustee, W. A. Knight..... Wakonda
Trustee, W. G. Wright..... "
Trustee, Anton Aufinson..... Wakonda
Supt. & Engr. P'g. Sta.,
J. B. Knight..... "

Well, 6-in. 530 ft. deep; near center distribution; no purification.

Pumps, 1-10,000 gal. vert. triple c. & f. wh. Des Moines 1911; gas engine, 8-hp. F. M. 1911; pumping to elev. tank (1911) 45,000 gal. steel, Des Moines Bridge & Iron Works.

Pipe, ¾ mi. 4 & 6-in. steel & c. i.; hyd. 9, hose con. 2½-in.; valves, 9 r. h. opening; meters, 18 Neptune; av. daily cons. 7500 gal. 90%; serv. con. 18; ord. pres. 40 lb., fire pres. same.

Rates: meter, min. charge 50c. mo. 1000 gal.; 5c. 1000 gal. max., 3c. min.

WATERTOWN, 7,010.

WATERTOWN WATER CO.

Pres., Lee Stover.....Watertown
Sec., D. W. Bradley..... "
Treas. & Supt., B. H. Stover.... "

Lake Kampeska & wells, 3 open 8-ft. in diam. 16-ft. deep; 5 mi. from center distribution.

Boilers, two 70 & 100-hp. Williams; hand stoking; pumps, 2-1,000,000 gal. ea. Deane; pumping to standpipe, steel

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 127, hose con. 2½-in. Chapman; valves, 80 r. h. thd. Chapman; meters, 1398 Pittsburgh, National & Buffalo; av. daily cons. 500,000 gal.; serv. con. 1398; ord. pres. 40 to 60 lb., fire pres. 125 lb.

Rates: meter, min. charge $2 quarter 8,000 gal., 25c. 1,000 gal.

WAUBAY, 803.

MUNICIPAL. Board of Trustees.

Pres., P. M. Engelhurst..... Waubay
Trustee, W. J. Miller..... "
Trustee, Gust Olson..... "
Clerk, D. O. Herington..... "
Engr. P'g. Sta., L. F. Chaddock... "

Wells, 4 ft. diam. 40 ft. deep; near center business section; no purification.

Pumps, triplex F. M. 1911 d. con. to elec. motor, 15-hp. 220 v. 1911 & gasoline engine, 10-hp. F. M. 1911; elec. energy from Waubay Motor Sales Co.; pumping to elev. tank (1907) 50,000 gal. wood, Des Moines Bridge & Iron Works.

Pipe, one mi. 4 to 8-in. c. i.; hyd. 20, hose con. 2¾-in.; valves, one r. h. opening; meters, 30 National & Neptune; av. daily cons. 40,000 gal.; ord. pres. 45 lb., fire pres. same.

Rates: meter, 50c. 1000 gal. max., 30c. min.

WEBSTER, 1,713.

MUNICIPAL.

Mayor, Frank Mohs.....Webster
Comr., C. E. Hyde..... "
Supt. & Engr. P'g. Sta.,
Geo. E. Boyle..... "

Wells, 2 tubular 8-in. 250 ft. deep; ¼ mi. from center business section; settling basins, 50,000 gal.; no purification.

Boilers, 2 fire-tube 125-hp. ea. 125 lb. Williams 1907; hand stoking; pumps, 2-140,000 gal. ea. vert. d. act. American 1912; steam engines, 2 125-hp. ea. Murray 1904; elec. motors, two 15 & 20-hp. 220 v. G. E. 1912; pumping to elev. tank (1902) 90,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 4 mi. 4 & 8-in. c. i.; hyd. 24, hose con. 2½-in. valves, 12 l. h. opening Eddy; meters, 200 Neptune; av. daily cons. 30,000 gal. 90%; serv. con. 225; ord. pres. 60 to 75 lb., fire pres. same.

Rates: meter, min. charge 50c. mo. 100 gal., 50c. 1000 gal. max., 35c. min.

WENTWORTH, 329.

MUNICIPAL.

Supt., A. L. Berther.....Wentworth

Wells, 2 open 16 ft. diam. 20 ft. deep; pump, 1-3000 gal. F. M. d. con. to gasoline engine, 20-hp. F. M.; pumping to compressed air tank.

Pipe, 1.3 mi. 4 to 12-in. c. i.; hyd. 13, hose con. 2½-in.

Rates: flat, $4 year.

WESSINGTON SPRINGS, 1,093.

MUNICIPAL.

Comr., F. F. Keene.....Wessington Springs
Audr., E. O. Paulsen.... " "
Supt. & Engr. P'g. Sta.,
H. A. Pope..... " "

Springs; near center distribution; reservoir, 80 ft. in diam. 12 ft. deep & 60 ft. in diam. 10 ft. deep; no purification.

Pump, 1-396,000 gal. Deane belted to gas engine, 14-hp. Stover; pumping to reservoirs, above.

Pipe, 6 mi. 3 to 8-in.; hyd. 36, hose con. 2½-in.; valves, r. h. thd. Eddy; av. daily cons. 150,000 gal.; serv. con. 300; ord. pres. 25 lb., fire pres. 75 to 125 lb.

WHITEWOOD, 390.

MUNICIPAL.

Supt., H. H. Vroman.....Whitewood
Town Clerk, H. Johns..... "

Spring Creek; 4 mi. from center distribution; gravity distribution from elev. tank, 50,000 gal. wood; ord. pres. 65 lb.

Rates: flat, $1.50 mo., bath 50c.

TENNESSEE

ATHENS, 2,264.
ATHENS WATER CO.
Pres., T. R. Bleims.....Athens
Gen. Mgr., W. C. Hornsby..... "
Sec., Treas. & Supt., B. J. Hornsby.. "
Spring; 1.5 mi. from center distribution; no purification.
Boiler, return tubular 30-hp.; hand stoking; pump, 1-432,000 gal. Worth.; pumping to reservoir, 300,000 gal. & standpipe (1890) steel.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 3-in.; meters, 15 National; av. daily cons. 200,000 gal.; serv. con. 350; ord. pres. 8 to 35 lb., fire pres. same.
Rates: meter, 25c. 1,000 gal.

BOLIVAR, 1,070.
MUNICIPAL LIGHT & WATER PLANT.
Treas., J. R. Mitchell..... Bolivar
Pur. Agt., J. D. Wright..... "
Supt. & Engr. P'g. Sta., Ed. Smith.. "
Boilers, 120-hp.; steam engine 120-hp.

BRISTOL, 7,148.
MUNICIPAL.
Supt. & Comr., J. H. Harkleroad....Bristol
Comr., S. G. Keller..... "
City Recorder, T. J. Burrow..... "
Springs; 6 mi. from center distribution; chemical, hypochlorite of lime.
Gravity distribution; hyd. 100; meters, 40; av. av. daily cons. 1,000,000 gal.; serv. con. 1650; ord. pres. 40 to 75 lb.

BROWNSVILLE, 2,822.
MUNICIPAL.
Mayor, M. B. Keatley.....Brownsville
Clerk, W. W. Crandell, Jr..... "
Supt. & Engr. P'g. Sta., C. E. Crumb..... "
Cons. Engr., F. D. Proutt.....Memphis
Wells, 2 tubular 8-in. 250 ft. deep; ¾ mi. from center business section; no purification.
Pumps, 1-720,000 gal. hor. s. d. act. Worth. 1914, 1-450,000 gal. hor. s. d. act. Worth. 1904, 2-360,000 gal. vert. triplex Deane 1914 geared to elec. motors, two 35-hp. ea. 220 v. 3 ph. 60 cys. G. E. 1914; elec. energy from Brownsville Cotton, Oil & Ice Co.; pumping to elev. tank (1914) 50,000 gal. wood, Caldwell.
Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 76; hose con. two ½-in. Nelson & Bourbon; valves, 21 r. h. opening Crane; meters, 200 Neptune; av. daily cons. 212,000 gal.; serv. con. 518; ord. pres. 45 to 55 lb., fire pres. 90 to 120 lb.
Rates: flat, 85c. mo., bath 10c., closet 25c.; meter, min. charge 50c. mo., 30c. 1000 gal. max., 30c. min.

CLARKSVILLE, 8,548.
MUNICIPAL.
Chmn. Comrs., C. D. Runyon... Clarksville
Comr., S. J. Hogson..... "
Comr., J. T. Cunningham..... "
Supt., S. J. Lowe.....Clarksville
Cons. Engr., Dabney H. Maury, 1137 Monadnock Block, Chicago, Ill.
Cumberland River; 1.5 mi. from center distribution; settling & coagulating basins, 200,000 gal.; mech. filters, 3-1,500,000 gal. N. Y. C. Jewell; chemicals, hypochlorite of lime & sulphate of alumina.
Boilers, 2 water-tube 145-hp. ea. B. & W.; hand stoking; pumps, 4-6,000,000 gal. McGowan & Worth.; pumping to standpipe, steel.
Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 135, hose con. 2½-in. Chapman, Ludlow & Columbian; valves, 50 l. h. thd. Ludlow; meters, 225 National & Thomson; av. daily cons. 800,000 gal.; serv. con. 1200; ord. pres. 40 to 70 lb., fire pres. same.
Rates: flat, $6 year, bath $6, closet $5; meter, 30c. 1000 gal. max., 7c. min.

CLEVELAND, 5,549.
MUNICIPAL.
Pres. Comrs., G. T. Hall.....Cleveland
Sec., J. L. Kirby..... "
Treas., C. W. Harle..... "
Supt., J. P. Lea..... "
Clerk, J. McHall..... "
Spring; 2.5 mi. from center distribution; reservoir, 1,500,000 gal.; no purification.
Boiler, 80-hp. Casey-Hedges; pumps, 1-720,000 gal. Deane; 1-432,000 gal. Deane; elec. motors, 37.3 kw. 2300 v. 3 ph. 60 cys. G. E.; elec. energy from Tennessee Power Co.; pumping to reservoir, 1,798,000 gal.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 68, hose con. 2-in. mostly Columbian; valves, 32 l. h. opening mostly Crane; meters, 600 Worth.; av. daily cons. 200,000 gal.; serv. con. 1050; ord. pres. 60 lb., fire pres. 60 to 70 lb.
Rates: flat, $6 year, bath $6.

CLINTON, 1,090.
CLINTON WATER CO.
Pres., C. J. Sawyer..... Clinton
Treas., J. B. Sruggs..... "
Supt., S. M. Seath..... "
Springs; ¾ mi. from center distribution; no purification.
Gravity distribution from reservoir, 20 x 20 ft.

COLUMBIA, 5,754.
COLUMBIA WATER & LIGHT CO.
Pres., Chas. E. Bigelow...New York, N. Y.
Supt., J. R. Robinson..... Columbia
Treas., T. E. Redman..... "
Chief Engr., S. D. Wantland..... "
Engr. P'g. Sta., H. T. Wantland.. "
Boilers, 400-hp.; steam engines, four 50-hp. Corliss-Ball.

COOKEVILLE, 1,820.
MUNICIPAL LIGHT & WATER WORKS.
Supt., F. E. Collins..... Cookeville
Wells, 3 tubular 6-in. 40 to 250 ft. deep; near center distribution; reservoir, 80,000 gal.

Boilers, 2 return tubular 50-hp. ea. 100 lb. Atlas 1910; hand stoking; pumps, 1-720,000 gal. hor. comp. duplex Deane 1910; air compressor, 500 cu. ft. Ingersoll-Rand 1906; pumping direct.

Pipe, one mi. 8-in.; hyd. 13 Herron; valves, 5 r. h. opening Herron; meters, 50; av. daily cons. 20,000 gal.; serv. con. 50; ord. pres. 75 lb., fire pres. 125 lb.

Rates: meter, min charge 50c. mo., 25c. 1000 gal.

COVINGTON, 2,990.

MUNICIPAL. City Water & Light Plant.

Supt., John Craig.....Covington
Recorder, T. L. Boyle..... "

Wells, 12 tubular 6-in. 100 ft. deep; 1¼ mi. from center business section; reservoir, 2-160,000 gal.

Boilers, 4 tubular 150-hp. ea. 110 lb. Dan Shea 1909, 2 tubular 85-hp. ea. 110 lb., 1-1,000,000 gal. comp. d. act. Platt 1914, 1-750,000 gal. s. d. act. F. M. 1900; air compressor, 155 cu. ft. Union 1914 steam driven; steam engines, 200-hp. Russell 1900, 300-hp. Murray 1902; elec. motor, 150 kw. 110 v. 3 ph. 60 cys. G. E. 1909; pumping direct & to reservoir above.

Pipe, 10 mi. 2 to 8-in. c. & galv. i.; valves, 20 r. h. opening Crane; av. daily cons. 350,000 gal. 50%; serv. con. 498; ord. pres. 40 to 50 lb., fire pres. 100 to 150 lb.

Rates: flat, $1 mo., bath 25c., closet 25c.

DAYTON, 1,191.

MUNICIPAL.

Supt., H. E. Crawford.....Dayton

Pump, 1-370,000 gal. comp. duplex Buffalo; av. daily cons. 75,000 gal.

DICKSON, 1,850.

MUNICIPAL.

Mayor, W. H. Walker.....Dickson

Boilers, 2 80-hp. ea. 100 lb. W. & W. 1900, 150-hp. 100 lb. W. & W. 1911; pumps, 2-250,000 gal. d. act. Worth. 1911; pumping to reservoir, 200,000 gal.

Pipe, 3.75 mi. 4 to 8-in. c. i.; hyd. 37, hose con. 2½-in. Michigan; valves, 20 l. h. opening; av. daily cons. 100,000 gal. 50%; serv. con. 220; ord. pres. 40 to 60 lb., fire pres. 70 to 100 lb.

Rates: flat, $1 mo.

DYERSBURG, 4,149.

MUNICIPAL WATER & LIGHT PLANT.

Mayor, L. E. Tarne..... Dyersburg
Supt., S. R. Blaken..... "

Boilers, 2 50-hp. Shea; steam engine, 2 50-hp. Chuse.

ERWIN, 1,149.

ERWIN WATER CO.

Pres., A. R. Brown..... Erwin
V. Pres., J. W. Price..... "
Sec., B. F. Bogart..... "

Springs & reservoirs, 2-255,000 gal.; no purification.

Gravity distribution; pipe, 7 mi. 1½ to 8-in. c. & w. i.; hyd. 40; hose con. 2½-in. Columbia; valves, 45 l. h. opening Crane & Fairbanks; meters, 10 Buffalo & Pittsburg; av. daily cons. 150,000 gal.; serv. con. 300; ord. pres. 5 to 30 lb., fire pres. 20 to 85 lb.

Rates: flat, $6 year, bath $4, closet $4; meter, min. charge $2.25 quarter; 25c. 1,000 gal. max., 16c. min

ETOWAH, 1,685.

ETOWAH WATER & LIGHT CO.

Pres., A. B. Bayless.....Etowah
V. Pres., T. E. H. McCroskey, Madisonville
Sec., W. L. Walling.....Etowah
Treas., T. A. Aber..... "
Mgr. & Pur. Agt., W. H. Price.... "
Engr. P'g. Sta., J. W. Chapman... "

Wells, 3 artesian 8-in. 150 to 370 ft. deep; one mi. from center distribution; reservoir, 50,000 gal.; no purification.

Pumps, 2-360,000 gal. ea. centrifugal Jeanesville d. con. to elec. motors, 2 20-hp. 440 v. 3 ph. 60 cys. Crocker-Wheeler; elec. energy from Tennessee Power Co.; air compressor, St. Marys; pumping to reservoir, 225,000 gal.

Pipe, 1.9 mi. 4 to 12-in. c. i.; hyd. 31 Columbian; valves, 16 l. h. thd. Crane; meters, 210 Hersey & Worth.; av. daily cons. 110,000 gal.; serv. con. 563; ord. pres. 60 to 82 lb., fire pres. same.

Rates: flat, 67c. mo.; meter, min. charge 75c., 20c. 1000 gal.

FRANKLIN, 2,924.

MUNICIPAL.

Supt., J. E. Lum.....Franklin

Springs & reservoirs, 500,000 gal.; 10 to 15 mi. from center business section; gravity distribution from standpipe (1905) 100,000 gal. steel.

Hyd. 50, hose con. 3-in. Eureka; meters, 475 Thomson & Hersey; av. daily cons. 130,000 gal.; serv. con. 475; ord. pres. 50 to 64 lb., fire pres. same.

GLEASON, 388.

GLEASON WATER & LIGHT CO.

V. Pres., J. C. Oliver.....Gleason
Sec., J. C. Ammons..... "
Gen. Mgr. & Pur. Agt., A. J. Rucker "

Wells, 2 tubular 3-in. 90 ft. deep; near center distribution.

Pumps, 2-10,000 gal. ea. vert. s. Myers 1903 belted to gasoline engines, two 6-hp. ea. International 1903; pumping to air pressure tank, 10,000 gal.

Hyd. 12, hose con. 2-in.; valves, 4 r. h. opening, av. daily cons. 10,000 gal. 90%; serv. con. 90; ord. pres. 30 to 60 lb., fire pres. same.

Rates: flat, $3 quarter, bath 50c., closet 50c.

GREENFIELD, 1,506.

GREENFIELD ELECTRIC LIGHT & WATER PLANT.

Owners, J. H. Coats & Co.....Greenfield
Mgr., W. A. Coats..... "

Engr. P'g. Sta., John Betty.....Greenfield
Boilers, 160-hp. W & W; steam engine, 90-hp. A. S. & G.

GREENEVILLE, 1,920.
MUNICIPAL.
Chmn. Comrs., W. H. Daughty.Greeneville
Sec., O. M. Dugger..... "
Treas., F. A. Vance..... "
Supt., Chas. H. Burley..... "
Spring; ½ mi. from center distribution; mech. filters, 300,000 gal.; chemical, hypochlorite of lime.
Pump, 1-605,000 gal. driven by elec. motor; elec. energy from Tennessee Eastern Elec. Co.; pumping direct.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2½-in. Bourbon; av. daily cons. 200,000 gal.; serv. con. 397; ord. pres. 90 to 120 lb., fire pres. same.
Rates: meter, 25c. 1,000 gal.

HALLS, 882.
MUNICIPAL.
Mayor, B. M. Archer.....Halls
Recorder, C. W. Dyer..... "
Supt. & Engr. P'g. Sta., T. G. Avery.. "
Wells, two 8-in. 200 ft. deep; near center business section.
Boilers, return tubular 150 lb. Dan Shea 1909, return tubular 150-hp. 150 lb. Casey-Hedges 1914; pumps, 1-30,000 gal. vert. s. deep well Cook 1909; one 720,000 gal. hor. duplex 1909; steam engine, 125-hp. Harrisburg 1914; pumping to elev. tank (1905) 25,000 gal.
Pipe, 5 mi. 4 to 8-in c. i.; hyd, 52; hose con. 2¼-in. Columbian; meters, 52, Pittsburg; av. daily cons. 20,000 gal. 90%; serv. con. 100; ord. pres. 30 to 40 lb., fire pres. 30 to 180 lb.
Rates: flat, 50c. mo., bath 25c., closet 25c.; meter, min. charge 60c. mo. 4,000 gal., 15c. 1,000 gal.

HARRIMAN, 3,061.
MUNICIPAL WATER & LIGHT PLANT.
Pres., F. M. Rodes.....Harriman
V. Pres., C. E. Adair..... "
Treas., E. G. Roberts..... "
Supt., Geo. Lyman..... "
Emory River; boiler, 300-hp. Casey-Hedges; steam engine, 180-hp. Imperial; av. daily cons. 400,000 gal.

HUMBOLDT, 3,446.
MUNICIPAL WATER & LIGHT PLANT.
Sec. & Mgr., John D. Brown.....Humboldt
City Treas., E. A. Dobson..... "
Supt., W. A. Wore..... "
Boilers, 5 43-hp. B. & W.; steam engine, 3 75-hp. Chuse.

JACKSON, 15,779.
MUNICIPAL.
Trustee, Jno. L. Wisdom.....Jackson
" W. F. Alexander..... "
" T. C. Hughes.....Alexander
Supt. & Engr. P'g. Sta.,
H. M. Harris.....Jackson
Artesian wells, 36 tubular 6-in. 100 ft. deep; one mi. from center distribution.
Boiler, 2 water-tube 400-hp. Sterling & So. Eng.; hand stoking; pumps, 1-6,000,000 gal. Snow, 1-1,000,000 gal. Snow; pumping direct.
Pipe, 41 mi. 4 to 30-in. c. i.; hyd. 300, hose con. 2½-in. R. D. W. & Columbian; valves, 300 r. h. opening Ludlow; meters, 70 various; av. daily cons. 2,000,000 gal.; serv. con. 4,500; ord. pres. 20 to 80 lb., fire pres. 120 lb.
Rates: flat, $6 year, bath $3, closet $6; meter, 15c. 1,000 gal. max., 5c. min.

JASPER, 1,000.
W. T. DUNWOODY, Owner.
Supt., W. T. Dunwoody..... Jasper
Springs; 2 mi. from center business section; gravity distribution from reservoir, 14,000 gal.
Pipe, 2 mi. 2-in.; meters, none; serv. con. 60.
Rates: flat, 75c. mo., bath 25c., closet 25c.

JOHNSON CITY, 8,502.
MUNICIPAL.
Comr. & Supt.,
P. F. McDonald..... Johnson City
Treas., Wm. R. Ponder..... " "
Cashier, Earl M. Jackson..... " "
Springs; 15 mi. from center distribution; stone & sand filters; chemicals, none.
Gravity distribution from reservoirs, 2,500,000 gal.; pipe, 12 mi. 4 to 15-in. c. i. gravity lined; av. daily cons. 1,750,000 gal.; serv. con. 2450; ord. pres. 80 to 95 lb., fire pres. same.

LA FOLLETTE, 2,816.
LA FOLLETTE WATER, LIGHT & TELEPHONE CO.
Pres., W. C. Knight.....Redlands, Cal.
V. Pres., Supt. & Pur. Agt.,
W. S. Bailey.....La Follette
Sec. & Treas., F. A. Joss..Indianapolis, Ind.
Engr. P'g. Sta., Jesse Moore....La Follette
Indian Creek & mountain springs; 1.5 mi. from center distribution; no purification.
Boilers, 3 tubular 150-hp. Erie; hand stoking; pumps, 2-336,000 gal. Worth.; pumping direct.
Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. Holly; valves, l. h. thd.; meters, none; av. daily cons. 2,000,000 gal.; serv. con. 800; ord. pres. 85 to 105 lb., fire pres. 120 to 130 lb.

LAWRENCEBURG, 1,687.
MUNICIPAL LIGHT & WATER CO.
Sec. & Treas.,
H. B. Spockard.....Lawrenceburg
Supt., T. E. Hoxboro..... "
Water-turbines, 300-hp. Davis.

LENOIR CITY, 3,392.
MUNICIPAL.
Supt., J. W. Buffell, Sr.....Lenoir City

LEWISBURG, 1,830.

MUNICIPAL.

Mayor, W. A. Bills.....Lewisburg
Supt., T. E. Arthur..... "

Springs & reservoirs, 50,000,000 gal.; 3.75 mi. from center business section; gravity distribution from standpipe (1906) 100,000 gal.

Pipe, 8 mi.; hyd. 36, hose con. 2½-in. Rensselaer; valves, 10 l. h. opening Rensselaer; meters, 42 Buffalo; av. daily cons. 2,500,000 gal. 75%; serv. con. 200; ord. pres. 85 lb., fire pres. same.

Rates: flat, $2.10 quarter, bath $3, closet $3.75; meter, $10 year, 25c. 1,000 gal. max., 10c. min.

LEXINGTON, 1,492.

MUNICIPAL.

Mayor, C. C. Sweatt.....Lexington
Chmn. Comrs., J. W. Stewart.... "
Comr., T. Edwards..... "
Recorder, W. S. Odle..... "
Supt., J. A. Pope..... "
Engrs. P'g. Sta., D. L. Connelly.. "
E. O. Scott..... "

Wells, 3 tubular 6 to 10-in. 109 & 520 ft. deep; ½ mi. from center distribution.

Boilers, 2 return tubular 150-hp. ea. Casey-Hedges; hand stoking; pumps, 2-1,586,000 gal. F. M.; air compressor, L-D-G; pumping to reservoir, 144,000 gal. & elev. tank, 80,000 gal. steel.

Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 42, hose con. 3-in. Columbian; valves, r. h. thd.; meters, 54 Pittsburgh; av. daily cons. 125,000 gal.; serv. con. 173; ord. pres. 35 to 50 lb., fire pres. 75 to 150 lb.

Rates: meter, min. charge 75c., 20c. 1,000 gal.

McKENZIE, 1,322.

MUNICIPAL. McKenzie Water & Light Dept.

Supt. & Engr. P'tg. Sa.,
W. J. Kreider.....McKenzie

Wells, 2 tubular 6 & 8-in. 450 & 550 ft. deep; reservoir, 250,000 gal.

Boilers, 2 tubular 100-hp. Casey-Hedges; hand stoking; pumps, 2 deep well Cooke, 1-1,080,000 gal. Worth,; pumping to elev. tank (1912) 50,000 gal. steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 34, hose con. 2½-in.; valves, Crane; meters, 25 Neptune, National & Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 310; ord. pres. 55 lb., fire pres. 110 lb.

Rates: flat, min. 75c. mo., meter, 30c. 1,000 gal. max., 15c. min.

McMINNVILLE, 2,299.

MUNICIPAL WATER & ELECTRIC LIGHT PLANT.

Supt., Claud W. Pearsall.....McMinnville
Engr. P'g. Sta., Fred Moore... "

Collins River.

Boilers, 2 hor. return tubular 80 & 150-hp. W. & W.; hand stoking; pumps, 2-1,080,000 gal. comp. duplex Worth.; pumping to standpipe (1897) steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 51, hose con. 2½-in. Bourbon; meters, 80 Pittsburgh; serv. con. 250; ord. pres. 55 to 80 lb., fire pres. 80 to 110 lb.

MARLIN, 1,605.

MUNICIPAL WATER & LIGHT PLANT.

Supt., S. E. Hutcherson.....Marlin
Engr. P'g. Sta., R. J. Thuston..... "

Boilers, 160-hp.; steam engine, 125-hp. Chuse.

MARTIN, 2,228.

MUNICIPAL LIGHT & WATER PLANT.

Treas., Peoples Bank..... Martin
Mgr., A. Elliott..... "
Chief Engr., Geo. Myrick..... "

Boilers, 310-hp. Southern; steam engine, 370-hp. Ball.

MEMPHIS, 131,105.

MUNICIPAL. Memphis Artesian Water Dept.

Chmn. Comrs., Jas. S. Davant... Memphis
V. Chmn., H. T. Wellford..... "
Comr., W. C. Early..... "
Sec., Sanford Morison..... "
Supt., Wirt J. Wills..... "
Des. Engr., Carl E. Davis..... "
Engr. P'g. Sta., Jas. Sheehan..... "

Artesian wells, 90 10-in. 500 ft. deep; near center distribution.

Boilers, 5 tubular 150-hp. Stock, 6 tubular 150-hp. Heine; hand stoking; pumps, 3-10,000,000 gal. Worth., 5-1,000,000 gal. American, 15-1,000,000 gal. Wills; elec. motors, 80 kw. 220 v. 3 ph. 60 cys. West.; pumping direct.

Pipe, 262 mi. 4 to over 30-in. c. i.; hyd. 1,650, hose con. 4 & 6-in. various; valves, 3,000 r. h. opening Rensselaer & Ludlow; meters, 16,000 various; av. daily cons. 14,-000,000 gal.; serv. con. 25,000; ord. pres. 45 to 50 lb., fire pres. 50 to 60 lb.

Rates: meter, min. charge 60c. 2,500 gal., 10c. 1,000 gal.

MILLINGTON, 554.

MILLINGTON LIGHT & WATER PLANT. (Privately owned.)

Supt. & Engr. P'g. Sta.,
W. C. Hill..... Millington

Wells, 2 tubular 6-in. 150-ft. deep; at center distribution.

Boiler, tubular 100-hp.; hand stoking; pumps, 2-120,000 gal. Union; pumping to elev. tank, 25,000 gal. wood.

Pipe, 2 mi. 4 to 12-in. gal. i.; av. daily cons. 150,000 gal.; serv. con. 304; ord. pres. 38 lb.

MURFREESBORO, 4,679.

MURFREESBORO WATER COMPANY.

Pres. & Gen. Mgr.,
James R. Getton.....Murfreesboro
Sec. & Treas., Chas. F. Cox... "
Supt., J. B. Farmer..... "

Spring; one mi. from center distribution; reservoirs, 2-375,000 gal.; slow sand filter, 350,000 gal.; chemical, sulphate of alumina.

Boilers, 2 hor. tubular 80-hp. W. & W.; hand stoking; pumps, 2-720,000 gal. L-D-G; pumping to standpipe (1888) steel.

Pipe, 4 & 6-in. c. i.; hyd. 50, hose con. 2½-in. various; valves, 22 r. & l. h. thd. various; meters, 475 National, Neptune & Thomson; av. daily cons. 300,000 gal.; serv. con. 750; ord. pres. 60 to 80 lb., fire pres. 100 to 150 lb.

Rates: flat, $1 mo.; meter, 40c. 1,000 gal. max., 15c. min.

NASHVILLE, 110,364.

MUNICIPAL.

Comr., Robt. Elliott.....Nashville
Civil Engr., Aris Brown..... "
Asst. Engr., H. P. Vincent..... "
Engr. P'g. Sta., Wm. Tolmie..... "
Chemist, W. H. Hollinshead..... "

Cumberland River; 4 mi. from center distribution; settling & coagulating basins, 57,000,000 gal.; chemical, hypochlorite of lime & sulphate of alumina.

Boilers, 4 return tubular 400-hp. ea. B. & W.; hand stoking; pumps, 4-30,000,000 gal. Worth., Holly & Allis-C.; pumping to reservoir, above.

Pipe, 231.3 mi. 4 to over 30-in. c. i.; hyd. 3,049, hose con. 2½-in. R. D. W. & Michigan; valves, r. & l. h. thd. Ludlow; meters, 16,000 Hersey & National; av. daily cons. 13,000,000 gal.; serv. con. 18,000; ord. pres. 10 to 110 lb., fire pres. same.

Rates: flat, 50c. room; meter, min. charge $1.50 quarter, 1000 cu. ft., 14c. 100 cu. ft. max., 6c. min.

NEWBERN, 1,602.

MUNICIPAL.

Supt., J. H. Patterson.....Newbern
Engr. P'g. Sta., J. R. Ellis..... "

Wells, 2 tubular 8 & 10-in. 160 ft. deep; at center distribution; no purification.

Boilers, 2 return tubular 125 & 150-hp. Shea; hand stoking; pumps, 2-396,000 gal. Cook; pumping to reservoir, 55,000 gal. & standpipe (1901) steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 47, hose con. 2½-in. Rensselaer; valves, 15 r. h. thd. Crane; meters, none; av. daily cons. 100,000 gal.; serv. con. 360; ord. pres. 36 to 45 lb., fire pres. 75 lb.

Rates: flat, 75c. mo.

PARIS, 3,881.

MUNICIPAL WATER & LIGHT PLANT.

Mgr. & Supt., M. W. Younkin.....Paris
Engr. P'g. Sta., E. R. Lee..... "

Wells, tubular 375 ft. deep.

Boilers, 2 water-tube 500-hp. B. & W.; hand & mech. stoking, Jones; pumps, 2-750,000 gal. Platt; air compressor, St. Louis; deep well operated by elec. motor, 15 kw. 250 v. d. c.; pumping to elev. tank (1894) 70,000 gal. steel.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 55, hose con. 2½-in. Bourbon, Kupferle, Ludlow & Columbian; valves, 50 r. h. thd. Crane; meters, 50 various; av. daily cons. 400,000 gal.; serv. con. 800; ord. pres. 35 lb., fire pres. 120 lb.

Rates: meter, 15c. 1,000 gal. max., 9c. min.

RIPLEY, 2,011.

RIPLEY LIGHT, WATER & ICE CO.

Pres., G. H. Hutchinson.....Ripley
V. Pres., W. G. Rice..... "
Sec. & Treas., C. R. Barber..... "
Mgr. & Contracting Agt.,
W. A. McCallum..... "
Engr. P'g. Sta., W. B. Alton..... "

Wells, 4 tubular 6 & 8-in. 100 to 700 ft. deep; boilers. two 50-hp. H. S. G., pumps, deep well Cook; steam engine, 3 50-hp. Murray; av. daily cons. 200,000 gal.

ROCKWOOD, 3,660.

MUNICIPAL WATER & LIGHT PLANT.

Supt., Frank Leever.....Rockwood

Boilers, two 50-hp. B. & W.; steam engine, 300-hp. Chuse.

SHELBYVILLE, 2,869.

Privately owned.

Supt., P. J. Scudder.....Shelbyville

Duck river; pumps, 2-720,000 gal. duplex L-D-G; av. daily cons. 120,000 gal.

SOMERVILLE, 1,387.

MUNICIPAL.

Supt., E. A. Maddox..... Somerville
Eng. P'g. Sta., C. A. Oliver..... "
City Clerk, J. G. Hendon..... "

Wells, 4.

SPRINGFIELD, 2,085.

MUNICIPAL.

Comr., J. E. Garner.....Springfield
Supt., G. B. Shawver..... "

Sulphur Fork creek; one mi. from center distribution; reservoir, 75,000 gal.; no purification.

Pumps, 2-1,080,000 gal. Morris & Platt driven by elec. motors, 35 & 50-hp. 2,300 v. 3. ph. 60 cys. G. E.; elec. energy from municipal power plant; pumping to elev. tank (1905) steel.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 32, hose con. 2½-in. Rensselaer; valves, 61 l. h. thd. Rensselaer; meters, none; av. daily cons. 288,000 gal.; serv. con. 436; ord. pres. 40 to 52 lb., fire pres. same.

TRENTON, 2,402.

MUNICIPAL.

Comr., R. R. Collins.....Trenton
Comr., W. E. Seat..... "
Treas., Joe Freed..... "
City Engr. & Supt.,
A. E. Cunningham..... "

Artesian wells, 12-in. 450 ft. deep; near center business section; reservoir, 150,000 gal.; no purification.

Boilers, 2 tubular 80 & 100-hp. 125 lb. W. & W. 1912; pumps, 2-720,000 gal. hor. s. d. act. Gardner 1896, 1-500,000 gal. vert. s. d. act. Blake 1912; steam engines 150-hp. Chuse 1912; pumping direct.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 34, hose con. 2½-in. Bourbon; valves, 8 l. h. opening; meters, none; av. daily cons, 240,000 gal.; serv. cons. 450; ord. pres. 45 to 60 lb., fire pres. 125 lb.

Rates: flat, 60c. mo., bath 25c., closet 25c.

TALLOHOMA, 3,049.

MUNICIPAL ELECTRIC LIGHT & WATER WORKS.

City Clerk, J. F. Dowel.....Tallohoma
Supt. & Engr. P'g. Sta.,
Sam Shingleton..... "

Wells, 2 tubular 6-in. 200 ft. deep; near center business section; no purification.

Boilers, 2 hor. return tubular 125-hp. ea. 125 lb. W. & W. 1907; pumps, 1-720,000 gal. vert. triplex Worth. 1903; air compressors, 130 cu. ft. L-D-G. 1903 driven by elec. motor, two 50-hp. ea. 220 v. 3 ph. 60 cys. G. E. 1903; pumping to reservoir, 80,000 gal. & standpipe (1903) 75,000 gal.

Pipe, 10 mi. 4 & 6-in. c. i.; hyd. 69; hose con. 2½-in. Rensselaer; valves, 40 r. & l. h. opening Rensselaer; meters, 40 Hersey, National & Buffalo; av. daily cons. 130,000 gal. 90%; serv. con. 431; ord. pres. 45 to 55 lb., fire pres. 50 to 125 lb.

Rates: flat, $6 mo. including bath & closet; meter, min. charge, $1 mo. 1000 gal., 25c. 1000 gal. max., 10c. min.

UNION CITY, 4,389.

MUNICIPAL WATER & ELECTRIC LIGHT WORKS.

Mayor, T. Reynolds.....Union City
Comr., F. Anderson..... "
Supt., W. Alexander..... "

Boilers, two 40-hp. Adams; steam engines, two 15-hp. L-D-G.

WAVERLY, 947.

WAVERLY LIGHT & WATER CO.

Owner, A. W. Lucas.....Waverly
Supt., B. Hillman..... "

Boiler, one 50-hp. W. & W.; steam engine, 100-hp. Jackson.

WINCHESTER, 1,351.

STONE-FORT POWER CO. Owned by the Tennessee Light & Power Co. Office, 8th & George Ave. Chattanooga.

Pres., A. J. Adams.....Chattanooga
Treas., G. B. Adams..... "
Gen. Mgr., M. R. Stern..... "

Springs; 3 mi. from center business section.

Pumps, 1-504,000 gal. vert. triplex Worth. 1902 geared to elec. motor, 50-hp. 440 v. 3 ph. 60 cys. G. E.; 1-128,000 gal. hor. centrifugal Worth. 1910 d. con. to elec. motor, 25-hp. 440 v. 3 ph. 60 cys. Westg.; pumping to standpipe (1902) 65,000 gal. steel.

Pipe, 4 mi. 4 & 8-in. c. i.; hyd. 33, hose con. 3-in.; meters, 130 Neptune, & Buffalo; av. daily cons. 150,000 gal. 50%; serv. con. 230; ord. pres. 45 to 52 lb., fire pres. same.

Rates: meter, min. charge $10 100,000 gal., 25c. 1000 gal.

TEXAS

ABILENE, 9,204.

ABILENE WATER CO. (Controlled by American Public Service Co., 49 Wall St., New York, N. Y.)
Pres., E. H. Hatch..... Abilene
V. Pres. & Pur. Agt.,
A. V. Wainright..... "
Asst. Treas., R. D. Smith..... "
Mgr., Geo. A. Caffrey..... "

Impounding reservoirs on Lytle Creek, two 550,000,000 gal.; 6 mi. from center distribution; no purification.

Pumps, 2-288,000 gal. Jeanesville d. con. to elec. motors, two 50-hp. ea. 2,300 v. 3 ph. 60 cys. G. E.; elec. energy from Abilene Gas & Elec. Co.; pumping direct & to standpipe, iron.

Hyd. 62, hose con. 2½-in.; valves, r. h. thd. various; meters, 875 Standard, Neptune & Pittsburgh; av. daily cons. 400,000 gal.; serv. con. 1,500; ord. pres. 45 to 55 lb., fire pres. same.

Rates: meter, 25c. 1000 gal.

ALICE, 2,136.

MUNICIPAL.
Mayor, J. R. Scott..... Alice
Comr., J. J. Denison..... "
Comr., Jas. Gibson..... "
City Clerk, Jno. T. Wright..... "
Supt., Sam Bengnall..... "

Well, 8-in. 800 ft. deep; near center of business section; reservoir, 2-50,000 gal.; settling basins, one.

Pump, driven by gasoline engine, 100-hp. Callahan; pumping to elev. tank (1910) 30,000 gal. steel.

Pipe, one mi. 6-in. steel; hyd. 6, hose con. 4-in. Eureka; meter, 60 Pittsburgh; av. daily cons., 10,000 gal. 95%; serv. con. 80, ord. pres. 70 lb., fire pres. same.

Rates: flat, $1.50 mo.; meters, min. charge $1.50 mo. 3000 gal., 50c. 1000 gal.

AMARILLO, 9,957.

CITY LIGHT & WATER CO. (Controlled by City's Service Co., 60 Wall St., New York, N. Y.)
Pres., H. L. Dougherty....New York, N. Y.
V. Pres.,
M. W. Frueauff..... " " "
V. Pres., T. I. Carter..... " " "
Sec., W. W. Martin.....Amarillo
Treas., L. R. Warren.....New York, N. Y.
Gen. Mgr., Frank A. White.....Amarillo
Pur. Agt., A. J. Sloan..... "
Supt., J. B. Scott..... "
Engr. P'g. Sta., R. C. Shock..... "

Boiler, 500-hp. Springfield; gas engine, 800-hp. Westinghouse; steam engine, 550-hp. Allis-C.

ANSON, 1,842.

CITY WATER & LIGHT CO., INC.
Pres., J. A. Harris..... Anson
Sec., Mgr. & Cont. Agt., J. W. Skinner "
Treas., A. W. Johnson..... "
Engr. P'g. Sta., J. F. Crumbaker.....Anson

Boiler, 80-hp.; oil engine, 120-hp.

ARANSAS PASS, 1,197.

MUNICIPAL. Board of Commissioners.
Mayor, Jess J. Todd.....Aransas Pass
Comr., C. E. Henry..... " "
Comr., G. E. Gustafson..... " "
Sec., Charles H. Giles..... " "
Supt., R. J. Webb..... " "
Cons. Engr., M. G. O'Neil & Son " "
Engr. P'g. Sta.,
John Howland..... " "

Wells, three 9-in. 60-ft. deep; one-quarter mile from center business section; settling basins, 60,000 gal.; chemicals, none.

Pumps, one 288,000 gal. vert. single Goulds 1914 geared to elec. motor, 5-hp. 220 v. 3 ph. 60 cys. Lincoln 1914, one 720,000 gal. vert. triplex Goulds 1914 geared to elec. motor 15-hp. 220 v. 3 ph. 60 cys. Lincoln 1914, one 440,000 gal. hor. centrifugal Goulds 1914 belted to oil engine, 65-hp. Bessemer 1914; pumping to elevator tank (1914) 60,000 gal. steel, Chicago Bridge & Iron Co.

ARLINGTON, 1,794.

ARLINGTON LIGHT, POWER, ICE & WATER CO.
Pres., Wm. Dugan..... Arlington
V. Pres., Thomas Struance..... "
Sec., Treas. & Mgr., W. Weeks... "
Engr. P'g. Sta., W. B. Stodd..... "

Boiler, one 140-hp.; engine, 150-hp.; gas engine, 25-hp.

ATLANTA, 1,604.

MUNICIPAL.
Mayor, Jno. J. Ellington, Sr.....Atlanta
Sec., W. F. Cameron..... "
Supt., Chas. Goodman..... "

Artesian well, 8-in. 825 ft. deep; near center business section; impounding reservoir, two 75;000 gal.

Gravity distribution from reservoir; pipe, 2 mi. 6 & 8-in. c. i.; hyd. 30, hose con. 2½-in. Eureka; meters, 80 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 100; ord. pres. 80 lb., fire pres. 100 lb.

Rates: flat $1.25 mo.; meter, min. charge $1.25 mo. 4000 gal.

AUSTIN, 29,860.

AUSTIN WATER, LIGHT & POWER DEPT.
Mayor, A. T. Wooldridge.....Austin
Supt. & Pur. Agt.,
E. C. Bartholomew..... "
Ch. Engr., Walter Johnson..... "
Cons. Engr., A. C. Scott..... "

Colorado River; one mi. from center distribution; sand & gravel filters.

Boiler, one water-tube 500-hp. Aultman-Taylor, 2 water-tube 408-hp. B. & W., 2 water-tube 290-hp. Heine; hand stoking; pumps, 1-5,000,000 gal. duplex Holly, 1-8,000,000 gal. cross comp. Nordberg, 2-

6,000,000 gal. centrifugal Platt driven by elec. motors, two 500-hp., 1-6,000,000 gal. triplex Worth. d. con. to elec. motor, 400-hp.; pumping direct & to reservoir, 10,000,000 gal.

Hyd. 550 Columbian, R. D. W., Holly & Chapman; meters, 5,200 Pittsburgh & Thomson; av. daily cons. 4,000,000 gal.; ord. pres. 60 to 150 lb., fire pres. same.

Rates: all meter, min. charge $1 for 5000 gal., 20c. 1000 gal. max., 7½ c. min.

BAIRD, 1,710.

MUNICIPAL.

Supt., W. P. Ashon.....Baird

BALLINGER, 3,536.

MUNICIPAL.

Supt., J. R. Lusk.....Ballinger
Engr. P'g. Sta., C. L. Dunn..... "

Elm Creek; ¼ mi. from center distribution; settling & coagulating basin, 100,000 gal.; mech. filters, 864,000 gal.; chemicals, sulphate of alumina.

Boilers, 2 water-tube & return tubular 100-hp. ea. Atlas; hand stoking; pumps, 1-1,440,000 gal. Worth., 1-720,000 gal. Epping-Carpenter, one centrifugal driven by gasoline engine, 10-hp. Clark; pumping direct & to standpipe (1893) steel.

Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 51, hose con. 2½-in. National, Rensselaer & Kupferle; valves, 25 r. h. thd. Crane; meters, 375 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 600; ord. pres. 60 lb., fire pres. 130 lb.

Rates: flat, $1 mo.; meter, min. charge $1 mo., 20c. 1000 gal.

BARTLETT, 1,815.

MUNICIPAL.

Supt., J. Dockfield.....Bartlett

BASTROP, 1,707.

BASTROP WATER, LIGHT & ICE CO.

Pres. & Gen. Mgr.,
W. B. Ransome.....Bastrop
V. Pres., A. Griesenbeck..... "
Sec., H. G. Griesenbeck..... "
Supt. & Pur. Agt., J. E. Haines..... "

Colorado river, near center business section; no purification.

Boilers, return tubular 125-hp. 125 lb. 1911, return tubular 80-hp. 100 lb. Atlanta 1895; hand stoking; pump, 1-300,000 gal. hor. simple d. act. Gardner, 1-400,000 gal. vert. triplex Platt 1911 belted to elec. motor, 50-hp. 2,000 v. 3 ph. 60 cys. G. E. 1911; steam engine, 100-hp. Corliss-York 1912, 120-hp. Skinner 1911; pumping to standpipe, 120,000 gal.

Pipe, 6 mi. 3 to 8-in. c. i.; hyd. 20, hose con. 2½-in. National & Eclipse; valves, 9, r. h. opening; meters, 10 Buffalo; av. daily cons. 250,000 gal.; serv. con. 200; ord. pres. 35 to 75 lb., fire pres. same.

Rates: flat, $1.50 mo., bath 50c., closet 75c.; meter, min. charge $1.50 mo. 3000 gal.; 20c. 1000 gal.

BAY CITY, 3,156.

MUNICIPAL.

Mayor, J. Sutherland.....Bay City
Supt., B. Smith..... " "

Artesian wells, 496 & 592 ft. deep; near center distribution; no purification.

Pumps, 2-252,000 gal. triplex Goulds belted to gasoline engines, two 20-hp. Callahan & elec. motors, 20-hp.; pumping to elev. tank, 50,000 gal. iron.

Pipe, 10 mi. 4 to 8-in. wood; hyd. 55, hose con. 2½-in. Pratt & Cady & Columbian; valves, 20 r. h. thd. Pratt & Cady; meters, 348 Buffalo, Pittsburgh, Standard & Neptune; av. daily cons. 150,000 gal.; serv. con. 505; ord. pres. 50 lb., fire pres. 85 lb.

Rates: flat, min. $1 mo.; meter, 50c. 1000 gal. max., 25c. min.

BEEVILLE, 3,269.

TEXAS SOUTHERN ELECTRIC CO. Office, Victoria.

Pres., W. A. Leland.....Victoria
V. Pres. & Pur. Agt.,
M. H. Merrill.....Boston, Mass.
Sec., D. D. Sweeny..... " "
Treas., R. L. Warner..... " "
Gen. Mgr., W. D. Dupree.....Victoria
Mgr., S. V. Greer.....Beeville

Wells, 8-in. 250 ft. deep; near center business section.

Boilers, fire-tube 150-hp. ea. 125 lb. Atlas, 2 fire-tube 150-hp. ea. 110 lb. Ames; pumps, 1-750,000 gal. hor. simple d. act. Platt, 1-500,000 gal. vert. triplex Platt belted to elec. motor, 15-hp. 220 v. s. ph. 60 cys. Wagner; air compressors, 250-hp. Gardner 1914, 300 cu. ft. American steam driven; pumping to elev. tanks, 50,000 gal. wood & iron, Caldwell Tank Mfg. Co.

Pipe, 5 mi. 1 to 4-in. c. & w. i.; hyd. 7, hose con. 2½-in.; valves, 6 r. h. opening; meters, 116 National; serv. con. 200; ord. pres. 30 to 45 lb., fire pres. 120 lb.

Rates: meter, min. charge $1.25 mo. 2500 gal., 50c. 1000 gal. max., 15c. min.

BELTON, 4,164.

MUNICIPAL. Water & Sewer Commission.

Supt., G. E. Aldrich.....Belton
Sec., R. C. Flerwalle..... "
Engr. P'g. Sta., S. L. Ludwick..... "

Wells, 2 artesian 4 & 7-in. 935 ft. deep; near center business section; boilers, 2 return tubular 85-hp. ea. 125 lb. Atlas 1902 & 1909; hand stoking; pumps, 2-662,500 gal. ea. hor. comp. d. act. Worth. 1884; air compressor, 196 cu. ft. Clayton 1907 steam driven; pumping to reservoir, 100,000 gal. & standpipe (1910) 253,000 gal. concrete.

Pipe, 10 mi. 4 & 8-in. c. i.; hyd. 59, hose con. 2½-in. Chapman, Ludlow & Rensselaer; valves, 55 l. h. opening Ludlow; meters, 175 Thomson & Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 575; ord. pres. 70 to 75 lb., fire pres. 75 to 125 lb.

Rates: flat, $10 year, bath $5, closet $5;

meter, min. charge $1 mo. 4000 gal., 20c. 1000 gal. max., 15c. min.

BIG SPRINGS, 4,102.

MUNICIPAL. Big Springs City Waterworks.

Mayor, James C. Brooks.....Big Springs
Supt., Theodore Jones..... " "
Sec., S. C. Bainbridge..... " "
Engr. P'g. Sta., G. L. Bell..... " "

Well, 6 to 8-in. 140 to 260 ft. deep; 3 mi. from center business section; reservoir, 400,000 gal.; no purification.

Pumps, 3-228,000 gal. vert. single belted to elec. motors, 3 62-hp. ea. 220 v. 3 ph. 1910; air compressor, 310 cu. ft. Ingersoll-Rand 1910 driven by elec. motor; gasoline engine, 20-hp.; elec. energy from West Texas Light & Power Co.; pumping direct & to reservoir, above.

Pipe, 6.25 mi. 6 & 8-in. c. & w. i.; hyd. 42, hose con. 2½-in. Rensselaer; valves, 60 r. h. opening Darling; meters, 560 National; av. daily cons. 250,000 gal. 80%; serv. con. 790; ord. pres. 60 to 80 lb., fire pres. same.

Rates: meter, min. charge $1.50 for 1500 gal., 25c. 1000 gal.

BISHOP, *1,200.

TEXAS SOUTHERN ELECTRIC COMPANY. Office, Victoria.

Pres., W. S. Leland.....Victoria
V. Pres. & Pur. Agt.,
M. H. Merrill.....Boston, Mass.
Sec., T. B. Sweeny..... " "
Treas., R. L. Warner..... " "
Gen. Mgr., W. D. Dupre.....Victoria

Artesian well, 6-in. 775 ft. deep; reservoir, 96,000 gal.

Boiler, water-tube 125-hp. Heine 1910; oil fuel; pumps, 1-332,000 gal. hor. duplex American 1910 belted to gasoline engine, 24-hp. Atlas 1910 or steam engine, 128-hp. Ball 1910; air compressor, Gardner 1914 gas engine driven; pumping to elev. tank (1910) 50,000 gal., steel.

Pipe, 1.25 mi. 4 & 6-in. c. i.; hyd. 17, hose con. 2½-in.; valves, 6 r. h. opening Crane; meters, 90; av. daily cons. 75,000 gal.; serv. con. 175; ord. pres. 37 to 42 lb., fire pres. same.

Rates: flat, $1.50 mo.; meter, min. charge $1.50 mo. 1500 gal., $1 for 1000 gal. max., 35c. min.

BLOOMING GROVE, 903.

THE HOME LIGHT, WATER & ICE CO.

Pres., W. A. High.....Blooming Grove
Mgr., Supt. & Des. Engr.,
W. H. Jones..... " "
Treas., T. M. George..... " "
Engr. P'g. Sta.,
E. C. Tillman, Jr..... " "

Artesian well, near center distribution; no purification.

Pump, F. M. belted to gas engine, 60-hp. Rathbun; pumping to reservoir, 50,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 8, hose con. 2½-in. Ludlow; av. daily cons. 20,000 gal.; serv. con. 154; ord. pres. 35 to 43 lb., fire pres. same.

Rates: flat, $1 mo.; meter, 40c. 1000 gal.

BRADY, 2,669.

MUNICIPAL.

Trustee, A. C. Baze.....Brady
" J. E. Shropshire..... "
" Jno. P. Sheridan..... "
Supt., J. M. Lyle..... "
Engr. P'g. Sta., R. O. Knight..... "

Reservoir on Brady Creek; ½ mi. from center distribution; settling & coagulating basin, 30,000 gal.; slow sand filters, 1-250,000 gal.; chemical, sulphate of alumina.

Boilers, 2 return tubular 225-hp. Atlas & H. S. G.; hand stoking; pumps, 1-720,000 gal. Worth., 1-360,000 gal. Worth.; pumping to standpipe, steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 16, hose con. 3-in. Eclipse; valves, 20 r. h. thd. Darling; meters, 350 Pittsburgh, National & Neptune; av. daily cons. 100,000 gal.; serv. con. 600; ord. pres. 40 to 60 lb., fire pres. 60 to 110 lb.

Rates: meter, min. charge $1.25 for 1000 gal., 50c. 1000 gal. max., 25c. min.

BRANSCOM, 21,107.

Supplied by the City of Providence.

BRENHAM, 4,718.

MUNICIPAL.

Comr., F. H. Gresecke.....Brenham
Comr., Dr. S. Bowers..... "
Comr., H. D. Booker..... "
Supt. & Engr. P'g. Sta.,
H. D. Booker..... "

Wells, 4 & 10-in. 90 to 204 ft. deep; ¾ mi. from center business section; reservoirs, 3-300,000 gal.; no purification.

Boilers, 2 hor. tubular 70-hp. ea. 100 lb. Ames 1904; hand stoking; pumps, 2-1,250,000 hor. comp. duplex d. act. Worth. 1910; air compressor, 2-300 cu. ft. Gardner 1911 steam driven; pumping to reservoir, 114,000 gal. & standpipe (1884).

Pipe, 12 mi. 3 to 12-in. c. i.; hyd. 86, hose con. 2½-in. Kupferle; meters, 55 Crane & Eddy; av. daily cons. 300,000 gal.; serv. con. 700; ord. pres. 30 to 50 lb., fire pres. 75 to 100 lb.

Rates: meter, min. charge $1 mo. 3000 gal., 35c. 1000 gal. max., 12.5c. min.

BROWNSVILLE, 10,517.

MUNICIPAL.

Supt., F. H. Williams..... Brownsville
Engr. P'g. Sta., D. McLenton.. "

Rio Grande River; 1.5 mi. from center distribution; settling & coagulating basin, 1,500,000 gal.; slow sand filter, 500,000 gal.

Boilers, 2 vert. water-tube 500-hp. Erie; oil fuel; pumps, 4-2,500,000 gal.; elec. motors, 45 kw. 220 v. 3 ph. 60 cys. Westg.; elec. energy from city plant; pumping direct.

Hyd. 83, hose con. 2½-in. Bourbon & Eddy; meters, 600 Neptune & Pittsburgh; av. daily cons. 500,000 gal.; serv. con. 600;

ord. pres. 40 to 60 lb., fire pres. 60 to 90 lb.
Rates: meter, min. charge $1.50 for 4000 gal., 30c. 1000 gal. max., 20c. min.

BROWNWOOD, 6,967.
MUNICIPAL.
Mayor, J. R. Looney..... Brownwood
City Sec., D. B. Andrews..... "
Supt., E. R. Brashear..... "
Engr. P'g. Sta., C. N. Davis.... "
Chemist, H. B. Van Valkenburg "
Impounding reservoir at Pecan Bayou; settling & coagulating basins, 2-1,000,000 gal.; chemicals, sulphate of alumina & lime.
Boiler, 100-hp. B. & W.; pumps, 1-1,080,000 gal. Worth., 1-1,728,000 gal. Worth.; gas engines, 100-hp. Foos; pumping to reservoir, 5,000,000 gal.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 184, hose con. 2½-in. various; valves, 100 r. & l. h. thd. various; meters, 900 Neptune, Pittsburgh & Standard; av. daily cons. 714,000 gal.; serv. con. 1800; ord. pres. 60 to 70 lb., fire pres. 60 to 80 lb.
Rates: flat, $3 quarter; meter, min. charge $2.25 quarter 1500 cu. ft.

CENTERVILLE, 1,270.
THE WARWICH & COVENTRY WATER CO. Office, Phenix, R. I.
Pres., Robert B. Treat..... Centerville
V. Pres. & Sec.,
Mrs. Robert B. Treat..... "
Carr's Lake; gravity distribution.
Rates: flat, $3.00 6-mo., bath $2.50, closet $2.50; meters, min. charge $15 year 50,000 gal.

CLARKSVILLE, 2,065.
MUNICIPAL.
Chmn. Comrs., J. W. O'Neill.... Clarksville
Supt. & City Clerk, Jno. R. Webb "
Engr. P'g. Sta., J. W. Wooten... "
Wells, 2 tubular 6-in. 600 & 620 ft. deep; near center distribution; settling basins, 2-208,000 gal.
Boilers, 2 hor. tubular & marine 8 & 125-hp. Chandler-Taylor; hand stoking; pumps, 1-720,000 gal. Advance, 1-1,000,000 gal. Advance; air compressor, one Platt, one Ingersoll-Rand; pumping to elev. tank, 80,000 gal. steel.
Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 46, hose con. 2½-in. Rensselaer, Columbian & Ludlow; valves, 23 r. h. thd. Ludlow & Columbian; meters, 246 mostly Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 450; ord. pres. 60 to 65 lb., fire pres. same.

CLEBURNE, 10,364.
MUNICIPAL.
Supt., G. W. Grupe.....Cleburne
Wells, 10 tubular 6 & 8-in. 900 to 1200 ft. deep; at center distribution; reservoir, 1,500,000 gal.
Boilers, 4 water-tube 900-hp. Heine; hand stoking; pumps, 3-2,000,000 gal. Worth.; pumping direct.
Pipe, 25 mi. 4 to 12-in. c. i.; hyd. 130, hose con. 2½ & 4½-in. Columbian, Ludlow & Pratt & Cady; meters, 700 Thomson & Pittsburgh; av. daily cons. 750,000 gal.; serv. con. 3009; ord. pres. 20 to 35 lb., fire pres. 75 to 160 lb.
Rates: flat, $1.50 quarter, with bath $2.25, with bath & closet, $2.65; meter, 20c. 1000 gal.

CORSICANA, 9,749.
CORSICANA WATER SUPPLY CO.
Pres. & Mgr., Ralph Beaton.....Corsicana
Supt. & Engr. P'g. Sta.,
C. B. Lewis..... "
Wells, 5 artesian 4 to 10-in. 2500 to 2800 ft. deep; in center distribution; reservoirs, 3-3,000,000 gal.; no purification.
Boilers, 3 90-hp. Atlas; pumps, 2-2,500,000 gal. Worth.; pumping direct & to standpipe (1896) iron.
Pipe, 14 mi. 4 to 12-in. c. i.; hyd. 108, hose con. 4-in. R. D. W.; valves, 150 r. & l. h. thd.; meters, 110 National & Worth.; av. daily cons. 750,000 gal.; serv. con. 900; ord. pres. 50 to 60 lb.
Rates: flat, min. 75c. mo.; meter, 50c. 1000 gal. max., 20c. min.

CROCKETT, 3,947.
MUNICIPAL.
Chmn. Comrs., Johnson Arledge....Crockett
Supt. & Mgr., V. Streeter..... "
Well, 8-in. 480 ft. deep; settling basins, 75,000 gal.
Pumps, 1-317,000 gal. Platt; gasoline engines, 32-hp. F. M.; elec. motor, 50-hp. 1100 v. d. c. Westg.; pumping to elev. tank, 75,000 gal. steel.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. Iowa; valves, 30 r. h. thd. Iowa; meters, 300 Pittsburgh & National; av. daily cons. 150,000 gal.; serv. con. 350; ord. pres. 70 lb., fire pres. 95 lb.
Rates: flat, $1.25 mo.; meter, min. charge $1.25 for 3000 gal.

CUMBERLAND, 10,107.
MUNICIPAL. Supplied by the City of Pawtucket.
City Engr., Frank E. Waterman..Manville

DALLAS, 92,104.
MUNICIPAL. Waterworks & Sewerage Commission.
City Engr., J. M. Preston..... Dallas
Supt., R. R. Nelms..... "
Impounding reservoirs on East Fork of Trinity River & Turtle Creek, 3-1,033,000 gal. & wells, 2 tubular 5-in. 1650 ft. deep.
Turtle Creek Sta.: boilers, 7 hor. tubular 80-hp. ea. 85 lb. 1886 & 1891, 3 hor. water-tube 305-hp. ea. 85 lb. Casey-Hedges; pumps, 2-2,225,000 gal. comp. duplex Worth. 1886, 2 6,000,000 gal. comp. duplex c. & f. wh. Holly 1890 & 1893. Record's Crossing Sta.: boiler, hor. tubular 80-hp. 70 lb. 1885; pumps, 1-12,000,000 gal. comp. c. & f.wh. Holly 1893. Oak Cliff Sta.: boilers, 2 hor. tubular 48-hp. 90 lb. Adams 1893 &

125-hp. 90 lb. Brownell 1904; pump, 1-1,000,000 gal. comp. duplex d. act. Platt 1904; pumping direct & to standpipe (1887) 155,000 gal. steel.

Pipe, 113.7 mi. 4 to 24-in. c. i.; hyd. 925, hose con. 2½-in.; valves, 875; av. daily cons. 10,780,000 gal.; ord. pres. 20 to 64 lb.

DAWSON, 803.

DAWSON WATER CO.

Pres., B. C. Rhome.....Dawson
Supt., J. F. Williams..... "
Mgr., C. F. Holt..... "

Artesian well, 4-in. 1500 ft. deep; ½ mi. from center distribution.

Pump, 1-1,440,000 gal. Goulds belted to gasoline engines, 50-hp. Wilhelmi; pumping to elev. tank, 12,000 gal. steel & wood.

Av. daily cons. 3000 gal.; serv. con. 40; ord. pres. 40 lb.

Rates: flat, $1 mo., bath 50c.

DENISON, 13,632.

MUNICIPAL.

Supt., C. T. McElvaney.....Denison
Comr., E. E. Davis..... "
" F. C. Coleman..... "
Supt., J. C. Coppin..... "
Des. Engr., A. C. Cleney..... "

Impounding reservoir, 1,250,000 gal.; 5 mi. from center distribution; no purification.

Boilers, 2 tubular 100-hp.; hand stoking; pumps, 1-2,000,000 gal. Platt; pumping direct & to standpipe (1885) iron.

Pipe, 42 mi. 4 to 12-in. c. i.; hyd. 197, hose con. 2½-in. R. D. W. & Holly; meters, 2500 various; av. daily cons. 1,000,000 gal.; serv. con. 3000; ord. pres. 70 lb., fire pres. same.

Rates: all meter, 50c. 1000 gal. max., 15c. min.

DENTON, 4,732.

MUNICIPAL.

City Mgr., W. L. Farman.....Denton
Supt., W. J. Grady..... "
Engr. P'g. Sta., Wm. Cartwright... "

Wells, 2 artesian 6-in. 680 & 1100 ft. deep; one mi. from center distribution; settling basin, 20 x 24 ft.; no purification.

Boilers, 2 water-tube 600-hp. Heine; hand stoking; pumps, 4-1,000,000 gal. Deane & Platt; air compressor, 2 American; elec. motor, 50-hp. 3 ph. 60 cys. G. E., 40-hp. d. c. Westg.; pumping to standpipe (1891) steel.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 116, hose con. 3-in. Rensselaer & National; valves, 40 r. & l. h. thd. Crane; meters, 700 mostly Pittsburgh; av. daily cons. 500,000 gal.; serv. con. 1200; ord. pres. 43 to 67 lb., fire pres. 40 to 100 lb.

Rates: flat, $1 mo.; meter, 40c. 1000 gal. max., 20c. min.

DUBLIN, 2,551.

MUNICIPAL.

Chmn. Comr., J. R. Plair..... Dublin
Comr., E. Rouleau..... "
Comr., J. M. Smith.....Dublin
City Sec., Geo. Keller..... "
Supt., Wm. Fewell..... "
Engr. P'g. Sta., E. O'Brien..... "

Wells, 3 tubular 6 to 10-in. 350 ft. deep; near center business section; no purification.

Boilers, two 60-hp. ea. 100 lb. 1912; pumps, 3 deep wells Cook 1912; pumping to reservoir, 100,000 gal. & standpipe 60,000 gal.

Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 35, hose con. 2½-in.; valves, 24 r. & l. h. opening; meters, 225 Worth. & Hersey; av. daily cons. 40,000 gal. 33%; serv. con. 382; ord. pres. 40 to 45 lb., fire pres. 100 to 150 lb.

Rates: meter, min. charge $1.25 mo. 2000 gal., 50c. 1000 gal.

EL CAMPO, 1,778.

CENTRAL SERVICE CO.

Gen. Mgr., W. A. Hiddleson.....El Campo
Des. Engr., J. V. Koons..... " "
Engr. P'g. Sta., W. G. Greenlees.. " "

Wells, 175 ft. deep; near center distribution; no purification.

Pumps driven by elec. motor, 15 kw. 220 v. 3 ph. 60 cys,; pumping direct & to standpipe (1910) steel.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 17, hose con. 2½-in.; meters, 17 Pittsburgh & Neptune; av. daily cons. 100,000 gal.; serv. con. 100; ord. pres. 32 to 42 lb., fire pres. 86 to 100 lb.

Rates: meter, min. charge $1.50, 30c. 1000 gal. max., 20c. min.

EL PASO, 39,279.

MUNICIPAL.

Chmn. Comrs., C. H. Leavell.....El Paso
Supt., Wm. E. Race..... " "
Cons. Engr., T. H. Todd..... " "
Engr. P'g. Sta., Louis Gasser..... " "
Dr. F. H. Lamb..... " "

Wells, 28 tubular 10 to 14-in. 600 ft. deep; 7 mi. from center distribution; no purification.

Boilers, 10 water-tube 187-hp. B. & W.; crude oil fuel; pumps, 2-7,000,000 gal. Platt & Prescott; pumping to reservoir, 6,000,000 gal.

Pipe, 78 mi. 4 to 30-in. c. i.; hyd. 352, hose con. 2½-in. Ludlow & R. D. W.; valves, 352 l. h. opening Ludlow; meters, 7420 Thomson, Neptune & Worth.; av. daily cons. 4,000,000 gal.; serv. con. 7500; ord. pres. 65 to 100 lb., fire pres. same.

Rates: all meter, 20c. 1000 gal.

FARMERSVILLE, 1,848.

MUNICIPAL.

Supt., J. H. Nickles.....Farmersville

FLATONIA, 886.

FLATONIA ICE, WATER & ELECTRIC CO.

Pres., C. Pearson..... Flatonia
Sec. & Treas., W. D. Johnson..... "

Boiler, 100-hp. Keeler; steam engine, 75-hp. Reeves.

FORNEY, 1,114.

FORNEY WATER, LIGHT & ICE CO.

Sec. & Treas., T. M. Davis..... Forney
Supt., E. A. Sayre..... "

Gen. Mgr., E. Duk.....Forney
Engr. P'g. Sta., J. W. Lee..... "

Artesian wells, 6-in. 2000 ft. deep; ¼ to ½ mi. from center business section; reservoir, 45,000 gal.; no purification.

Pumps, 1-300,000 gal. vert. triplex 1910 belted to elec. motor, 20-hp. 220 v. 3. ph. 5 cys. G. E. 1910; air compressor, 900 cu. ft. Curtis 1910 driven by elec. motor, 20-hp. 220 v. 3 ph. 60 cys. Wagner 1912; pumping to standpipe (1910) 50,000 gal.

Pipe, 3 mi. 2 to 6-in. c. i.; hyd. 16, hose con. 2½-in. Platt; valves, 16 r. h. opening; meters, 250 Pittsburgh & Buffalo; av. daily cons. 100,000 gal. 100%; serv. con. 280; ord. pres. 45 to 90 lb., fire pres. 90 lb.

Rates: flat, $1.00 mo.; meter, min. charge $1 mo. 20,000 gal., 50c. 1000 gal.

FORT WORTH, 73,312.

MUNICIPAL.

Supt. & Comr., L. H. Blanke.....Ft. Worth

Artesian wells, 210 ft. deep; 6 mi. from center distribution.

Boilers, 4 water-tube 1500-hp.; hand stoking; pumps, 2-16,000,000 gal. Holly; elec. motors, 750 kw. 4400 v. 2. ph. 60 cys. G. E.; pumping direct & to standpipe (1891) steel.

Pipe, 150 mi. 4 to over 30-in. c. i.; hyd. 1124, hose con. 2½-in. Rensselaer, Columbian, Holly & Darling; meters, 12,300 mostly Neptune & Worth.; av. daily cons. 7,000,000 gal.; serv. 14,000; ord. pres. 85 lb., fire pres. 125 lb.

FOWLERTON, 1,500.

FOWLERTON WATER SUPPLY CO.

Pres., J. W. Hale.....Fowlerton
Sec., Treas., Gen. Mgr. & Pur.
Agt., J. D. Fowler..... "

Wells, 2 artesian 6-in. 950 ft. deep; near center business section; no purification; distribution by direct pressure.

Pipe, 3 mi. 6-in. w. i.; hyd. 12, hose con. 2½-in.; valves, 14 l. h. opening; meters, none; serv. con. 100.

Rates: flat, $8 year, bath $4.

FRANKLIN, 369.

FRANKLIN WATER & LIGHT CO.

Pres. & Mgr., H. C. Kellogg..... Franklin
V. Pres., W. W. Manning..... "
Chief Engr., O. E. Bollough..... "

Boilers, Atlas; steam engine, 60-hp. Ames.

GAINESVILLE, 7,634.

MUNICIPAL. Board of Water Commissioners.

Chmn. Comr., J. A. Case..... Gainesville
Supt., M. Chenalin..... "
Engr. P'g. Sta., O. Oetis..... "

Wells, 2 tubular 10 & 12-in. 860 ft. deep; ½ mi. from center business section; reservoirs 2-1,200,000 gal.; no purification.

Boilers, return tubular 150-hp. 140 lb. C. & T. 1912, 2 return tubular 100-hp. ea. 100 lb. Casey-Hedges 1897; hand stoking; pumps, 2-2,000,000 gal. ea. hor. tri. exp. d. act. McGowan 1912, 1-1,000,000 gal. hor. comp. d. act. McGowan 1909; air compressors, 500 cu. ft. Ingersoll-Sargent 1902, 600 cu. ft. Ingersoll-Rand 1912 steam driven; steam engine, 8-hp. Atlas 1912, 85-hp. Bates 1902; pumping to elev. tank (1912) 100,000 gal. steel Chicago Bridge & Iron Works.

Pipe, 12.5 mi. 4 to 12-in. c. i.; hyd. 131, hose con. 2½-in. Holly, National & Rensselaer; meters, 800 National, Neptune & Pittsburgh; av. daily cons. 700,000 gal. 65%; serv. con. 1600; ord. pres. 45 lb., fire pres. 45 to 125 lb.

Rates: meter, min. charge 55c. mo. 1100 gal., 75c. 1000 gal.

GALVESTON, 36,981.

MUNICIPAL.

Supt., A. M. Burgess.....Galveston
City Engr., A. T. Dickey..... "
Engr. P'g. Sta., E. J. Owins..... "

Wells, 32 artesian 7 to 12-in. 840 ft. deep; 18 mi. from center distribution; reservoir, 2,000,000 gal.

Boilers, 4 200-hp. Erie; oil fuel; pumps, 3-4,000,000 gal. ea. Allis-C. & 2 Knowles; air compressors, 1-700 cu. ft. Imperial, 1-1200 cu. ft. Corliss; pumping to reservoir, 1-1,520,000 gal. & standpipe (1891) iron.

Hyd. 800, hose con. 2½-in. various; valves, 600 l. h. thd. various; meters, 8000 various; av. daily cons. 4,000,000 gal.; serv. con. 8460; ord. pres. 40 to 60 lb., fire pres. 60 to 90 lb.

GATESVILLE, 1,929.

GATESVILLE WATER CO.

Pres., J. R. Roby.....Gatesville
V. Pres., G. W. Royality..... "
Sec., F. A. Story..... "
Mgr., W. H. Smith..... "

Wells, 2 artesian 6-in. 600 & 700 ft. deep; ¼ mi. from center business section; reservoir, 75,000 gal.; no purification.

Pumps, 2-100,000 gal. ea. vert. tri. exp. Goulds 1907 belted to gasoline engine, 20-hp. ea. Callahan 1907; pumping to standpipe (1890) 65,000 gal.

Pipe, 15 mi. ¾ to 6-in. galv. & c. i.; hyd. 15, hose con. 2½-in.; meters, 30 Pittsburgh, Standard & Neptune; ord. pres. 40 to 50 lb., fire pres. 90 to 140 lb.

Rates: flat, $1 mo., bath 50c., closet 50c.; meter, min. charge $1 mo., 50c. 1000 gal. max., 25c., min.

GEORGETOWN, 3,096.

MUNICIPAL.

Mayor, J. B. Hudson..... Georgetown
Comr., R. E. Ward..... "
Sec., Geo. Keakey..... "
Supt., R. E. Ward..... "
Engr. P'g. Sta., J. Adams..... "

Springs & well, 8x10-in. 37 ft. deep; ¼ mi. from center business section.

Boilers, 3 return tubular 125 & 150-hp. 90 & 120 lb. Casey-Hedges 1911 & Brownell 1913; hand stoking; pumps, 1-500,000 gal. Downey, 1-500,000 gal. N. Y. 1911, 1-500,000 gal. Platt, 1-600,000 gal. Worth.; steam

engines, 2 125 & 150-hp. Ide 1911; elec. motors, 2-50 & 75 kw. 2400 v. 2 ph. 60 cys. Westg. 1911; pumping to standpipe (1884) 350,000 gal.

Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 50, hose con. 2½-in.; valves, 40; av. daily cons. 500,000 gal.; serv. con. 550; ord. pres. 40 lb., fire pres. 40 to 120 lb.

Rates: flat, $1, bath 50c., closet 50c.

GILMER, 1,484.

MUNICIPAL.

Mayor, R. Stephens.....Gilmer

GONZALES, 3,319.

GONZALES WATER WORKS CO.

Pres., J. L. Lewis.....Gonzales
V. Pres., Sec., & Gen. Mgr.,
T. Spooner..... "
Supt., J. M. Johnson..... "

Guadalupe River; near center business section; no purification.

Boilers, 2 150-hp. ea. 130 lb. 1914; pumps, 1-1,000,000 gal. hor. tri. exp. d. act., 1-1,500,000 gal. vert. tri. exp. d. act. Goulds 1912, 1-1,500,000 gal. hor. tri. exp. d. act. Worth. 1903; elec. motor, 75-hp. 2200 v. 3 ph. 60 cys. G. E.; elec. energy from Citizens Electric Light & Power Co.; pumping d. & to standpipe, 100,000 gal. iron.

Pipe, 15 mi. one to 12-in. c. i.; hyd. 60, hose con. 2½-in.; valves, 40 r. & l. h. opening; meters, none; av. daily cons. 750,000 gal.; serv. con. 600; ord. pres. 50 to 100 lb., fire pres. same.

GRAHAM, 1,569.

MUNICIPAL.

Comr., G. B. Johnson.....Graham
Sec. & Treas., T. E. Wallace..... "
Supt., James Porter..... "
Engr. P'g. Sta., John Rubenkoenig "

Salt Creek; slow sand filter, 100,000 gal.; chemical, sulphate of alumina.

Boilers, 60-hp.; pumps, 2-288,000 gal. F. M.; gasoline engines, 32-hp. F. M.; pumping direct & to standpipe (1907) iron.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 3-in. Eureka; valves, 25 l. h. thd. National; meters, 250 various; av. daily cons. 75,000 gal.; serv. con. 275.

GRANBURY, 1,336.

GRANBURY WATER, ICE, LIGHT & POWER CO.

Pres., Gen. Mgr. & Pur. Agt.,
J. E. Clouch.....Granbury
Sec., Miss Zula Clouch..... "

Wells, 2 tubular 4 & 6-in. 300 & 500 ft. deep; near center business section; reservoir, 400,000 gal.; no purification.

Boilers, two 40 & 125-hp. 80 & 125 lb. Russell 1909; pumps, 1-100,000 gal. hor. d. act. F. M. 1907, 2-200,000 gal. hor. triplex 1907 driven by steam engine, 40 & 45-hp. s. 1912; elec. motor, 22.5 & 60 kw. 1100 v. 60 cys. Westg. 1912; pumping direct.

Pipe, 1.5 mi. 6-in. c. i.; hyd. 6, hose con. 2½-in.; ord. pres. 40 lb., fire pres. 40 to 100 lb.

Rates: flat, $1 mo., bath, 50c., closet 50c.

GRANGER, 1,708.

GRANGER WATER, LIGHT & ICE CO.
Office, Belton.

Pres., M. K. Smith.....Waco
Sec., M. B. Smith.....Belton
Gen. Mgr., W. T. Young.....Granger

Artesian wells, 4 to 10-in. 2600 ft. deep; ¼ mi. from center business section; reservoir, 2-130,000 gal.; no purification.

Boilers, 4 tubular 120-hp. ea. 145 lb. Brownell 1906-08-14; hand stoking; pump, triplex Platt d. con. to steam engine, 300-hp. Corliss-Murray 1906; elec, motor 75 kw. 2300 v. 3 ph. 60 cys. Western 1910; steam engine, 150-hp. Frick 1910, 125-hp. Ide 1908; pumping direct & to elev. tank (1908) 30,000 steel, Caldwell.

Pipe, 3 mi. 2 to 8-in. c. i. wood; hyd. 6, hose con. 2½-in. Kupferle; valves, 6 l. h. opening; meters, 125 National; av. daily cons. 300,000 gal.; serv. con. 300; ord. pres. 30 to 75 lb., fire pres. same.

Rates: flat, $1 quarter, bath 50c., closet 50c.; meter, min. charge $1 mo. 2500 gal., 40c. 1000 gal. max., 20c. min.

GREENVILLE, 8,850.

MUNICIPAL.

City Engr., C. L. Mitchell.....Greenville

HAMILTON, 1,548.

MUNICIPAL.

Mayor, Dewey Langford..... Hamilton
City Sec., J. J. Cleveland, Jr..... "
Supt., C. W. Watson..... "

Wells, 2 tubular 8 & 10-in. 350 ft. deep; near center distribution; no purification.

Pumps, one vert. double act. Luitweiler, one single act. Axtell, 1-360,000 gal. hor. duplex Deane 1910 belted to gasoline engines, 25-hp. Pohl 1905; pumping to elev. tank (1910) 50,000 gal. iron, Chicago Structural Steel Co.

Pipe, 2 mi. 4 to 10-in. c. i.; hyd. 20, hose con. 2-in. Renssalaer; valves, 12 l. h. opening Crane; meters, 160 Buffalo; av. daily cons. 50,000 gal. 90%; serv. con. 160; ord. pres. 70 to 150 lb.

Rates: meter, min. charge $3 quarter 6000 gal., 50c. 1000 gal. max., 30c. min.

HAMLIN, 1,978.

MUNICIPAL.

Chmn. Comrs., A. B. Barrow..... Hamlin
Comr., O. K. Wilson..... "
Mayor, G. H. Gray..... "
Sec., R. Randles..... "
Supt., O. M. Smith..... "

Moors Lake; 1.5 mi. from center business section.

Air compressors, F. M. 1909 driven by gas engine 40-hp.; pumping to elev. tank (1909) 75,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 4 mi. 6-in. c. i. & Universal; hyd. 19, hose con. 2½-in.; valves, 23 l. h. opening; meter, 132 Pittsburgh; av. daily cons. 150,000 gal.; ord. pres. 52 lb., fire pres. same.

Rates: flat, $1 mo.; bath 50c.; meter, min. charge $1 mo. 3000 gal., 33.3c. 1000 gal.

HARRISVILLE, 1,531.

PASCOAG WATER CO. Office, Burrillville.

Pres., Moses Joy ..... Burrillville
Sec. & Treas., J. M. Whitlaker .. "

HASKELL, 2,436.

MUNICIPAL.

Comr., H. M. Rike ..... Haskell
Comr., John L. Robertson ..... "
City Sec., Leon Giland ..... "
Supt. & Engr. P'g. Sta.,
H. J. Hambleton ..... "

Wells, 3 artesian 15 to 24-in. 20 to 150 ft. deep; near center business section; no purification.

Boilers, vert. 40-hp. 100 lb. Brownell 1909, vert. 80-hp. 125 lb. 1914; hand stoking; pumps, 1-45,000 gal. hor. duplex d. act. Platt 1909, 1-36,000 gal. hor. duplex d. act. Platt 1914; pumping to standpipe (1909) 234,000 gl.

Pipe, 2.5 mi. 4 to 8-in. c. i.; hyd. 33, hose con. 2½-in. Darling; valves, 18 r. h. opening; meter, 80 Pittsburgh; av. daily cons. 50,000 gal. 45%; serv. con. 100; ord. pres. 45 lb., fire pres. 75 lb.

Rates; meter, $1 for 1000 gal. max., 15c. min.

HEARNE, 2,352.

MUNICIPAL.

Mayor, P. L. Brady ..... Hearne
City Sec., W. W. Biven ..... "
Supt., H. D. Beaumont ..... "

Artesian well, 8-in. 750 ft. deep; near center distribution; no purification.

Boiler, return tubular 125-hp. Casey-Hedges; hand stoking; pumps, Worth.; air compressor, L-D-G; pumping to elev. tank, 50,000 gal. iron.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. Columbian; meters, 210 National, Thomson & Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 220; ord. pres. 54 to 120 lb.

Rates: flat, $1 mo.; meter, min. charge $1 mo. 2000 gal., 10c. 1000 gal. min.

HEREFORD, 1,750.

MUNICIPAL.

Mayor, Wm. M. Knight ..... Hereford
Comr., D. F. Ashbrook ..... "
Comr., C. S. Garrison ..... "
Sec., P. W. Price ..... "
Supt. & Engr. P'g. Sta., R. P. Brazil "

Wells, 2 tubular 6 & 7-in. 100 ft. deep; ¼ mi. from center distribution; reservoir, 11.000 gal.; no purification.

Pumps, 2 vert. F. M. 1909-14 driven by gasoline engine, 2 15 & 25-hp. F. M. 1909-14; pumping to elev. tank (1909) 75,000 gal. steel, Penn. Bridge Co.

Pipe, 2 mi. 6 & 8-in. c. i.; hyd. 21, hose con. 2½-in. Rensselaer; valves, 24 l. h. opening Rowe; meter, 46 Thomson; av. daily cons. 50,000 gal. 80%; serv. con. 54 to 65 lb., fire pres. 65 to 75 lb.

Rates: flat, $1.50 mo., bath $1.50, closet $1.50; meter, min. charge $2 mo. 20,000 gal., 35c. 1000 gal. max., 10c. min.

HILLSBORO, 6,115.

MUNICIPAL.

Mayor, M. W. Lovall ..... Hillsboro
Supt., Ed. R. Dickson ..... "
Cons. Engr., A. Humphries ..... "

Wells, six 200 & 900 ft. deep & 2 artesian 1900 ft. deep; at center & ¾ mi. from center distribution.

Boilers, 2 125-hp.; hand stoking; pumps, 2-750,000 gal. Worth., one centrifugal driven by elec. motor, 30 kw. G. E., pump-jacks driven by elec. motor, 5 to 15 kw. G. E.; elec. energy from Texas Power & Light Co.; pumping to reservoir, 90,000 gal. & standpipe (1894) 100,000 gal. steel.

Pipe, 20 mi. 4 to 10-in. c. i.; hyd. 150, hose con. 2-in. Rensselaer; meter, 850 National & Pittsburgh; av. daily cons. 600,000 gal.; serv. con. 1500; ord. pres. 50 lb., fire pres. 50 to 150 lb.

Rates: flat, $2.50 quarter; meter, 25c. 1000 gal.

HOUSTON, 78,800.

MUNICIPAL.

Comr. & Supt., D. Fitzgerald ..... Houston
Engr. P'g. Sta., C. G. Byrne ..... "

Wells, 66 tubular 6 to 12-in. 250 to 1330 ft. deep; at center distribution; no purification.

Boilers, 9 water-tube 150 to 290-hp. Heine; hand stoking; pumps, 3-28,000,000 gal. Worth. & Nordberg; pumping to standpipe (1886) steel.

Pipe, 120.86 mi. 4 to 30-in. c. i.; hyd. 996, hose con. 2½-in. Columbian & R. D. W.; valves, 1216 r. & l. h. thd. Columbian, Eddy & Crane; meters, 11,180 Neptune, National & Thomson; av. daily cons. 6,000-000 gal.; serv. con. 9,510; ord. pres. 50 to 65 lb.

Rates: all meter, 15c. 1000 gal. max., 9c. min.

HOUSTON HEIGHTS, 6,984.

HOUSTON HEIGHTS WATER & LIGHT CO.

Sec., W. O. Raymond ..... Houston

HUMBLE, 1,250.

HUMBLE WATER WORKS. (Privately owned.)

Pres. & Supt., M. N. Lambrecht .... Humble
Gen. Mgr., A. Lambrecht ..... "

Wells, 3 artesian 10-in. 900 ft. deep; near center business section; reservoir, 35,000 gal.; no purification.

Pumps, 1-200,000 gal. hor. simple c. & f. wh. Goulds 1914, 1-200,000 gal. hor. simple c. & f. wh. Myers 1913, 1-60,000 gal. vert.

1910; gas engine, 3 10, 12 & 15-hp. F. M. 1910-14; pumping to elev. tank, 2 (1908) 70,000 gal. wood.

Pipe, 3 mi. 4-in. w. i.; hyd. 15, hose con. 2-in. Chicago; valves, 20 l. h. opening various; meters, none; daily cons. 75,000 gal. 50%; serv. con. 300; ord. pres. 30 lb., fire pres. 80 to 120 lb.

Rates: flat, $3 mo., bath $1.50.

HUNTSVILLE, 2,072.

MUNICIPAL.

Supt., E. M. Berry.....Huntsville

JEFFERSON, 2,515.

MUNICIPAL.

Mayor, J. B. Hussey.....Jefferson

JOHNSTON, 5,935.

JOHNSTON WATER CO.

KARNES CITY, 635.

MICHEAUS & STECKERNEYER.

Mgr., H. J. Micheaus.....Karnes City

Well, 12-in. 1400 ft. deep; near center business section; no purification.

Pump, Luitweiler 1914 d. con. to elec. motor, 15-hp. 220 v. 3 ph. 60 cys. G. E.1914; pumping to elev. tank (1895) 50,000 gal. wood.

Pipe, 2 mi. 2 to 4-in. c. i.; hyd. none; valves, 4 l. h. opening; meters, none; av. daily cons. 50,000 gal.; serv. con. 100.

Rates: flat, $2 mo., bath 50c., closet 50c.

LADONIA, 1,293.

MUNICIPAL.

Mayor, C. E. Fuller.....Ladonia
City Sec., A. M. Howse..... "
Engr. P'g. Sta., M. G. Bramblett "

Well, 4 to 8-in. 2,526 ft. deep; near center distribution; reservoir, 30,000 gal.; no purification.

Boiler, 60-hp. Brownell; pumps, 1-720,000 gal.; air compress., Ingersoll-Rand; pumping to standpipe.

Hyd. 20, hose con. 3½-in.; meters, 7 Pittsburgh; av. daily cons. 20,000 gal.; serv. con. 85; ord. pres. 25 to 40 lb.

Rates: flat, $1 mo.; meter, min charge $1 mo. 1000 gal.

LAMPASAS, 2,119.

MUNICIPAL.

Supt., Matt Poole.....Lampasas

LANCASTER, 1,115.

MUNICIPAL. Leased to J. T. McDonald for ten years from April 1, 1913.

Supt. & Engr. P'g. Sta.,
J. T. McDonald.....Lancaster

Well, 8-in. 1500 ft. deep; ¼ mi. from center distribution.

Pump, 1-206,000 gal. F. M.; gas. engines, 6-hp. Hagan; elec. motors, 2 10-hp. 220 v. 3 ph. 60 cys. G. E.; elec. energy from Texas Power & Light Co.; pumping to reservoir, 65,000 gal. & elev. tank, 50,000 gal. iron.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 12, hose con. 2½-in. Rensselaer; meters, 10 Crane & Pittsburgh; av. daily cons. 75,000 gal.; serv. con. 250; ord. pres. 40 to 45 lb., fire pres. same.

Rates: meter, 50c. 1000 gal. max., 20c. min.

LA PORTE, 678.

LA PORTE WATER, LIGHT & ICE CO.

Pres. & Mgr., T. J. Pfeiffer.....La Porte
V. Pres. & Gen. Supt.,
Chas. W. Jordan..... "
Sec. & Treas., M. B. McMitt..... "
Engr. P'g. Sta., R. G. Gish..... "

Gas engine, 150-hp. Elyria.

LAREDO, 14,855.

LAREDO WATER CO. (Controlled by Interstate Elec. Corpn., 115 Broadway, New York, N. Y.).

Pres. & Supt., B. C. Parsons.....Laredo
V. Pres. & Treas.,
A. E. Fitkin.....New York, N. Y.
Asst. Treas., S. B. Thompson.....Laredo
Sec., J. W. Brewster..... "
Cons. Engrs., Roosevelt & Thompson,
71 Broadway, New York, N. Y.

Rio Grande River; ¾ mi. from center distribution; settling basin, 945,000 gal.; slow sand filter, 2,000,000 gal.; mech. filters, 2,000,000 gal.; chemical, liquid chlorine.

Boilers, 2 80-hp. ea. Atlas; hand stoking; pumps, 3-6,416,000 gal. Worth.; gas engines, two 4 & 85-hp. Bessemer; pumping direct & to elev. tank, 85,000 gal. steel.

Pipe, 19.4 mi. 4 to 16-in. c. & w. i.; hyd. 137, hose con. 2½-in. Ludlow; valves, 55 r. & l. h. thd. various; meters, 653 various; serv. con. 1572; ord. pres. 10 to 50 lb., fire pres. 60 lb.

Rates: flat, $2 mo.; meter, min. charge $2 mo. 12,000 gal.

LEWISVILLE, *1,500.

THE LEWISVILLE WATER CO.

Pres. & Supt., W. W. Sherrill.....Lewisville
V. Pres., H. E. Sherrill..... "
Treas., Mrs. W. W. Sherrill..... "

Wells, 2 tubular 4 & 8-in. 200 ft. deep; at center distribution.

Pump, 1-76,000 gal. Axtell driven by gasoline engines, 6-hp. Challenge, pumping to standpipe (1914) steel.

Pipe, one mi. 4 to 12-in. c. & w. i.; hyd. 2, hose con. 1½-in.; valves, 4 r. h. thd.; meters, 3 Pittsburgh & Hersey; av. daily cons. 13,500 gal.; serv. con. 125; ord. pres. 37 to 45 lb., fire pres. same.

Rates: flat, min. 50c. mo.; meter, 40c. 1000 gal. max., 20c. min.

LOCKHART, 2,954.

LOCKHART WATER WORKS. (Privately owned.)

Owner, C. E. Jones.....Lockhart
" J. A. Bachman..... "

Springs; near center business section.

Boilers, 2 tubular 150-hp. 125 lb. Murray 1911; pumps, 1-720,000 gal. hor. comp. Union 1910, 1-720,000 gal hor. rotary Root

1901; pumping to standpipe (1900) 1,000,000 gal.

Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 33, hose con. 2½-in. Kupferle; meters, 300 Buffalo, Worth. & Penn; serv. con. 500; ord. pres. 40 to 45 lb.; fire pres. 100 to 150 lb.

Rates: meter, min. charge $1.50 mo. 3000 gal., 25c. 1000 gal.

LONG VIEW, 5,155.

MUNICIPAL.

Mayor, G. A. Bodenheim.....Long View
Supt. & Chemist, H. N. Roberts. " "
Cons. Engrs., Aetna Engrg. Bureau, 17 No. La Salle St., Chicago, Ill.
Engr. P'g. Sta., R. D. White....Long View

Sabine River; 3.8 mi. from center distribution; settling & coagulating basin, 265,000 gal.; mech. filters, 1,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & lime.

Boiler, Scotch marine 150-hp. W. & W.; hand stoking; pumps, 4-1,000,000 gal. Platt; steam engine, 40-hp. Engberg; elec. motors, 15, 50 & 80 kw. 2300 v. 3 ph. 60 cys.; pumping to elev. tank (1906) 150,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; av. daily cons. 300,000 gal.; serv. con. 400; ord. pres. 45 to 85 lb., fire pres. 150 lb.

LORENA, 675.

S. C. WILLIAMS, Owner.

Supt., S. H. Fryar.....Lorena

Well, 6-in. 1400 ft. deep; near center business section; no purification.

Pump, 1-100,000 gal. hor. centrifugal Buffalo 1913 belted to gasoline engine, 15-hp. Foos 1913; pumping direct & to elev. tank (1913) 30,000 gal. steel, Des Moines Bridge & Iron Wks.

Pipe, 4 mi. one to 6-in. w. i.; av. daily cons. 30,000 gal. 67%; serv. con. 125; ord. pres. 40 lb.

LUBBOCK, 1,938.

MUNICIPAL.

Mayor, F. E. Wheelock.....Lubbock
Supt., W. M. Shaw..... "
Cons. Engr., E. L. Dalton.....Dallas
Engr. P'g. Sta., J. B. Berger.....Lubbock

Wells, 2 tubular 10-in. 100 ft. deep; ½ mi. from center business seetion; no purification.

Pumps, 1-720,000 gal. hor. duplex F. M. 1912 d. con. to gasoline engine, F. M. 1912.

LUFKIN, 2,749.

MUNICIPAL.

Mayor, C. N. Hunason .....Lufkin
Comr. & Supt., L. H. Gray..... "

Impounding reservoirs, 30,000,000,000 gal.

Pump, 1-504,000 gal. Goulds d. con. to elec. motor 50-hp. G. E.; pumping to standpipe (1898) iron.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 67, hose con. 2½-in.; valves, 16 r. h. thd.; meters, 275 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 375; ord. pres. 30 to 43 lb., fire pres. 60 to 125 lb.

Rates; meter, 50c. 1000 gal. max., 35c. min.

MARBLE FALLS, 1,061.

MARBLE FALLS WATER & POWER CO.

Pres., M. H. Reed.....Austin
Gen. Mgr. & Pur. Agt., M. M. Berry.....Marble Falls

Colorado River; near center business section; reservoir, 50,000 gal.; no purification.

Pump, 1-100,000 gal. hor. duplex F. M. belted to elec. motor, 20-hp. 220 v. 3 ph. 60 cys. F. M. 1913; water turbine, 165-hp. Leffel; pumping to tank.

Pipe, 15 mi. 2 to 4-in. c. i.; valves, 4 r. h. opening Crane; av. daily cons. 50,000 gal.; serv. con. 150.

Rates; flat, $1.50 mo.

MARSHALL, 11,452.

MUNICIPAL.

Comr., E. W. Mahone.....Marshall
Engr. P'g. Sta., B. F. Myers..... "

Wells, 73 tubular 4 & 6-in. 60 ft. deep; 4 mi. from center distribution; reservoir, 800,000 gal.

Boilers, 3 tubular 195-hp. Frost; natural gas fuel; pumps, 4-3,000,000 gal. Deane & Worth.; pumping to standpipe (1889, 1903) steel.

Pipe, 35 mi. 4 to 12-in. c. i.; hyd. 135, hose con. 2½-in.; meters, 900 various; av. daily cons. 400,000 gal.; serv. con. 900; ord. pres. 40 to 60 lb., fire pres. 75 lb.

MART, 2,939.

MUNICIPAL.

Mayor, J. L. Sansome.....Mart

MEMPHIS, 1,936.

MEMPHIS WATER WORKS. (Privately owned.)

Gen. Mgr. & Pur. Agt., J. T. Nail, Memphis
Treas., J. W. Noel..... "

Springs; 6 mi. from center business section; no purification; gravity distribution from reservoirs, 2-300,000 gal. concrete.

Pipe, 12 mi. 2 to 8-in. c. galv. & w. i.; hyd. 25, hose con. 2½-in. Rensselaer; valves, 30 r. h. opening Crane; meters, 95; serv. con. 500; ord. pres. 110 lb., fine pres. same.

Rates; flat, $1 mo.; meter, min. charge $1 mo. 1000 gal., $1 for 1000 gal. max., 35c. min.

MERKEL, 2,008.

MUNICIPAL.

Mayor, J. J. Stallings.....Merkel
Supt., W. N. Hall..... "
Engr. P'g. Sta., Clyde Foster..... "

Wells, 2 tubular 12-in. & 6 ft. diam. 140 & 185 ft. deep; near center business section; reservoirs, 2-175,000 gal.

Pumps, 2 vert. triplex Callahan 1910 d. con. to gasoline engines, one 15 & 2 20-hp. ea. Callahan 1910; pumping direct & to standpipe (1910) 50,000 gal.

Pipe, 1.8 mi. 6 & 8-in. c. i.; hyd. 28, hose con. 2½-in. Darling; valves, 26 l. h. opening;

meters, 22; av. daily cons. 50,000 gal. 75%; ord. pres. 20 to 34 lb., fire pres. 20 to 150 lb.

Rates; meter, min. charge $1.25 mo.

MEXIA, 2,694.

MEXIA WATER, LIGHT & POWER CO.
Pres., W. W. Cook....Junction City, Kans.
V. Pres., Jos. Nussbaum.....Mexia
Supt. & Sec., O H. Brannon..... "
Engr. P'g. Sta., John Edwards..... "

Springs; 8 mi. from center business section; impounding reservoir, 13,000,000 gal.

Boilers, 2 fire-tube 150-hp. ea. 125 lb. Brownell 1907 & 1914. 2 fire-tube 75-hp. ea. 125 lb. Brownell 1907; pumps, 1-750,000 gal. hor. comp. d. act. Deane 1907, 1-150,000 gal. hor. centrifugal Manistee 1914, 1-350,000 gal. hor. centrifugal Manistee 1914, 1-550,000 gal. hor. centrifugal Manistee 1914; centrifugals d. con. to elec. motors, 15-hp. 220 v. 3 ph. 60 cys. Wagner 1914, 25 & 50-hp. 2300 v. 3 ph. 60 cys. G. E. 1914; steam engines, 2 165-hp. ea. Skinner 1912 & 1914; pumping to standpipe (1895) 100,000 gal.

Pipe, 20.75 mi. 2 to 8-in. c. & w. i.; hyd. 34; balves, 60 r. & l. h. opening Rensselaer; meters, 70 National & Pittsburgh; av. daily cons. 250,000 gal. 50%; serv. con. 660; ord. pres. 40 to 60 lb., fire pres. 60 to 125 lb.

Rates; flat, $1 mo., bath 25c., closet 50c.; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal. max., 10c. min.

MIDLOTHIAN, 868.

MIDLOTHIAN ICE, WATER & LIGHT CO.
Owners, (Chas. J. Muller.....Midlothian
(J. G. Muller..... "
Mgr., Chas. J. Muller..... "

Wells, 2 tubular 6-in. 500 ft. deep; near center distribution; reservoir, 75,000 gal.; no purification.

Pumps, 4-144,000 gal. Luitweiler, Goulds & American belted to elec. motor, 19 kw. 120 v. d. c. G. E.; pumping to standpipe (1905) 60,000 gal. steel.

Pipe, one mi. 4 to 12-in. c. i.; hyd. 6, hose con. 2½-in. Pratt & Cady; meters, 4 Hersey; av. daily cons. 300,000 gal.; serv. con. 175; ord. pres. 40 to 45 lb., fire pres. same.

Rates; flat, $1 mo., bath & closet 25c.; meter, 75c. 1000 gal. max., 25c. min.

MINEOLA, 1,706.

MINEOLA ICE, LIGHT & WATER CO.
Pres., Dr. A. S. Cochrane.....El Paso
V. Pres., J. C. Kittrell.....Terrell
Sec., Treas. & Supt., C. M. Dozier..Mineola
Engr. P'g. Sta., W. S. Collins..... "
Chemist, Dr. A. Patten..... "

Wells, 2 tubular 6 & 8-in. 600 ft. deep; reservoirs, 2-200,000 gal.; settling basin, 15,;00 gal.; chemicals, none.

Boilers, 2 fire-tube 230-hp. Frick & Casey-Hedges; hand stoking; pumps, 2 Cameron & triplex Platt; air compressors, 2 Ingersoll-Rand & Clayton; gasoline engines, 90-hp. Rathburn; elec. motors, 25 kw. 220 v. 3 ph. 60 cys. Crocker-Wheeler; pumping direct & to elev. tank, 12,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i. & w.; hyd. 19, hose con. 2½-in. Pratt & Cady; valves, 15 Crane; meters, 30 various; av. daily cons. 325,000 gal.; serv. con. 375; ord. pres. 40 lb., fire pres. 60 to 80 lb.

MOODY, 983.

CORMANY BROS. ICE & WATERWORKS.
Supt., C. C. Cormany.....Moody
Engr. P'g. Sta., C. T. Sullins..... "

Well, 6-in. 1600 ft. deep; ¼ mi. from center distribution.

Boilers, two 70-hp. H. S. G.; hand stoking; pumps, 1-360,000 gal. Union; air compressor Gardner; pumping to elev. tank 40,000 gal. wood.

Pipe, 0.57 mi. 4-in. c. i.; av. daily cons. 90,000 gal.; serv. con. 320; ord. pres. 40 lb.

Rates; flat, $1 mo.

NACOGDOCHES, 3,369.

MUNICIPAL.
Supt., Carroll Holt.....Nacogdoches
Sec. & Treas., D. L. Thomas... "
Engr., P'g. Sta.
Lee M. Wilkerson..... "

Springs & impounding reservoir, 10,000,000 gal.; 2 mi. from center distribution.

Boiler, tubular 40-hp. Erie; hand stoking; pumps, 2-1,750,000 gal. steam Platt & centrifugal Rees driven by elec. motors, 15 kw. 1100 v. 3 ph. 60 cys. Allis-C.; elec. energy from municipal plant; pumping to reservoir, 221,000 gal.

Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 70, hose con. 2½-in. Pratt & Cady & Rensselaer; valves, 105 r. h. thd.; meters, 550 Pittsburgh; av. daily cons. 200,000 gal.; serv. con. 600; ord. pres. 55 to 65 lb., fire pres. 65 to 75 lb.

Rates; meter, 40c. 1000 gal. max., 40c. min.

NEW BRAUNFELS, 3,165.

MUNICIPAL.
Mayor, C. A. Jahn.....New Braunfels
Chmn. Comrs., John Marbach " "
Supt., P. R. Mitchell..... " "
Engr. P'g. Sta., S. M. Jet.... " "

Springs; 1.6 mi. from center distribution; no purification.

Pump, 1-1,000,000 gal. Platt, 1-864,000 gal. Deming chain driven from elec. motor, 50-hp. 2300 v. 3 ph. 60 cys. F. M.; elec. energy from generator, 60 k.v.a. driven by oil engines, 80-hp. F. M.; pumping to elev. tank (1896) 220,000 gal. stell.

Pipe, 11.6 mi. 4 to 12-in. c. i.; hyd. 127, hose con. 2½-in. Nelson & Darling; valves, 111 r. h. thd. Crane & Nelson; meters, 12 National; av. daily cons. 640,000 gal.; serv. con. 950; ord. pres. 35 to 50 lb., fire pres. 50 to 55 lb.

Rates; flat, 75c. mo.; meter, 20c. 1000 gal. max., 6c. min.

NEW SHOREHAM, 1,314.

NEW SHOREHAM WATER WORKS. (Privately owned.)

Owner, Edward S. Payne.....Block Island
Serv. con. 100.

ORANGE, 5,527.
ORANGE ICE, LIGHT & WATER CO.
Pres., & Mgr. Sam C. Trimble.....Orange
V. Pres. & Sec., W. H. Stark..... "
Wells, 2 artesian 4 & 12-in. 800 ft. deep; near center distribution.
Boilers, 4 fire-tube 150-hp.; hand stoking; pumps, 4-2,000,000 gal. Goulds, Platt & Worth.; serv. con. 500; ord. pres. 40 to 50 lb., fire pres. 100 lb.

OZONA, 427.
OZONA IMPROVEMENT CO.
Pres., S. E. Couch.....Ozona
V. Pres., C. E. Davidson..... "
Sec. & Treas., L. B. Cox..... "
Gen. Mgr., Frank F. Friend..... "
Wells, 3 tubular 6-in. 400 ft. deep; no purification.
Pumps, 3-108,000 gal. Cook belted to gasoline engine, 230-hp. ea. Stover; pumping to elev. tank, 54,000 gal. Snow.
Pipe, 0.125 mi. 4 to 12-in. w. i.; meters, 100 Pittsburgh; av. daily cons. 40,000 gal.; serv. con. 350; ord. pres. 35 lb.
Rates; flat, $1.50 mo.; meter, 50c. 1000 gal.

PAINT ROCK, 800.
CONCHO WATER WORKS CO.
Pres., J. W. Norman.....Paint Rock
Sec., J. B. Wade..... " "
V. Pres., B. B. Stone..... " "
Supt. & Engr. P'g. Sta.,
C. E. Norman..... " "
Concho River; ½ mi. from center business section; reservoirs, 3-200,000 gal.
Boilers, vert. 20-hp. Platt, one hor. comp. Platt, one vert. duplex Platt 1910 geared to water-wheel undershot; gasoline engine, 12-hp. Gilson 1914; pumping direct & to reservoirs above.
Pipe, 3 mi. ½ to 4-in. galv. i.; meters, 25 Pittsburgh.

PALESTINE, 10,482.
PALESTINE WATER CO.
Pres., Thos. Cronoin.....Palestine
Treas., Mrs. Wm. Branagan..... "
Supt., Wm. Branagan..... "
Springs & impounding reservoir, 100 acres & wells, seven 200 to 345 ft. deep; 1.25 mi. from center distribution; no purification.
Boilers, 2 return tubular 90-hp. ea., 1 return tubular 150-hp., 2 return tubular 100-hp. ea. Chattanooga; hand stoking; pumps, 2-1,500,000 gal. steam Worth., 1-100,000 gal. Deane; air compressors, 1-900 cu. ft., 2 600 cu. ft.; pumping direct.
Pipe, 35 mi. 4 to 12-in. c. i.; hyd. 165, hose con. 2½-in. Rensselaer, National & Johnson; valves, 50 l. h. thd. Rensselaer; meters, 600 Pittsburgh, Thomson & National; av. daily cons. 750,000 gal.; serv. con. 1800; ord. pres. 60 lb., fire pres. 85 lb.
Rates; meter, 30c. 1000 gal. max., 10c. min.

PASCOAG. 2,010.
Supplied by the Pascoag Water Co. See Harrisville.
Local Agt., Frances Fagen.....Pascoag

PEACEDALE, 1,000.
WAKEFIELD WATER CO. Office, Narragansett Pier, R. I. Supplies towns of South Kingstown & Narragansett.
Pres., Howell W. Pancoast,
245 S. 3rd St., Philadelphia, Pa.
Sec., Maurice G. Belknap,
1118 Walnut St,. Philadelphia, Pa.
Treas., Henry B. Pancoast, Jr.,
245 S. 3rd St., Philadelphia, Pa.
Gen. Mgr., G. G. Hazard, Jr.,
Narragansett Pier, R. I.
Springs and Rocky Brook; impounding reservoir, 2- 39,000,000 gal.
Boilers, 2 tubular 100 lb. Cunningham 1889; pumps, 1-1,000,000 gal. hor. comp. d. act. Worth. 1889, 1-1,000,000 gal. hor. simple d. act. Worth. 1889, 2-700,000 gal. ea. vert. triplex Platt 1911 & 1914; oil engines, two 25-hp. ea. M. & W. 1911 & 1914; pumping to standpipe (1889) 371,000 gal.
Pipes, 17.5 mi. 4 to 12-in. c. & galv. i. hyd. 156, hose con. 2½-in. Chapman & R. D. W.; meters, 161, mostly Hersey; av. daily cons. 530,000 gal.; serv. con. 980; ord. pres. 50 to 88 lb., fire pres. same.
Rates; flat, $9 year., bath $4, closet $4; meter, min. charge $32 year 80,000 gal. 40c. 1000 gal. max., 25c. min.

PECOS, 1,856.
MUNICIPAL.
Mayor, E. C. Cannon.....Pecos
Sec., C. L. Heath..... "
Supt., B. G. Warner..... "
Artesian wells, 10-in.; at center distribution; no purification.
Pump, 1-360,000 gal. driven by gasoline engine, 20-hp.; pumping direct & to elev. tank, 103,000 gal. steel.
Hyd. 1, hose con. 2½-in.; valves, 2 r. h. thd. Crane; ord. pres. 43 to 100 lb., fire pres. same.

PEARSALL, 1,799.
PEARSALL WATER, ICE & LIGHT CO.
Pres., E. A. Lilly.....Pearsall
Sec., Geo. W. Curtis..... "
Gen. Mgr. & Pur. Agt., A. W. Collier "
Well, 8-in. 2300 ft. deep; near center business section; settling basin, 60,000 gal.
Boilers, 2 return tubular 125-hp. ea. 125 lb. Ames 1910; hand stoking; pumps, 2-175,000 gal. ea. vert. tri. exp. Deming 1910; steam engine, 100-hp. Corliss-Murray 1910; pumping to standpipe (1910) 60,000 gal.
Pipe, 5 mi.; hyd. 11, hose con. 2-in. Pratt & Cady; valves, 10 r. h. opening Crane; meters, 150 Hersey; av. daily cons. 150,000 gal. 67%; serv. con. 195; ord. pres. 70 to 90 lb., fire pres. same.
Rates; flat, $1.75 mo.; meter, mon. charge $5.25 quarter 18,000 gal., 20c. 1000 gal.

PITTSBURGH, 1,916.
MUNICIPAL.
City Engr., Geo. T. Bevel.....Pittsburgh
Supply is owned & pumped by Home Light & Ice Co.
Gravity distribution from elev. tank (1905) 50,000 gal. w. i.
Pipe, 2 mi. 4 to 6-in. c. i.; hyd. 24, hose con. 4-in.; meters, 300 Pittsburgh, Hersey & National; av. daily cons. 40,000 gal.; serv. con. 300; ord. pres. 35 to 47 lb., fire pres. same.
Rates; meter, min. charge $1 for 2000 gal., 25c. 1000 gal.

PORT ARTHUR, 7,663.
MUNICIPAL.
Mayor, G. N. Bliss.....Port Arthur
Supt. & Engr. P'g. Sta.,
D. K. Miller..... " "
Wells, 2 artesian 14-in. 625 ft. deep; 8 mi. from center distribution; impounding reservoir, 25,000,000 gal.; no purification.
Pumps, 1-2,880,000 gal. Worth., 2-2,160,000 gal. Worth., 1-864,000 gal. Worth. d. con. to elec. motors, 50, 75 & 150 kw. 2 ph. 60 cys. G. E.; pumping to elev. tank, 100,000 gal. steel.
Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 105, hose con. 2½-in. Rensselaer; valves, 80 l. h. thd. Crane & Rensselaer; meters, 700 various; av. daily cons. 500,000 gal.; serv. con. 1200; ord. pres. 58 to 62 lb., fire pres. 90 to 115 lb.
Rates; meter, 50c. 1000 gal. max., 20c. min.

POST CITY, *1,000.
POST CITY WATERWORKS. (Owned by Est. of C. W. Post.)
Chmn. Bd. Mgrs., W. O. Stevens..Post City
Clerk, S. B. Bardwell..... " "
Mbr., J. F. Hartford..... " "
Supt. & Des. Engr.,
A. L. Marhoff..... " "
Engr. P'g. Sta., R. W. Allen..... " "
Wells, one 10-ft. in diam. & 10 artesian 10-in. 86 to 98 ft. deep; 4 mi. fron center distribution; no purification.
Pumps, 12 deep well operated by windmill & also belted to gasoline engines, four 6-hp. Waterloo, one 8-hp. F. M., six 8-hp. Charter; pumping to reservoirs, 2-2,000,000 gal.
Pipe, 7.8 mi. 4 to 12-in. c. i.; hyd. 32, hose con. 2½-in. R. D. W.; valves, l. h. opening R. D. W.; meters, 286 National; av. daily cons. 75,500 gal.; serv. don. 304; ord. pres. 75 to 97 lb.
Rates; all meter, min. charge $1 mo., 1000 gal., 20c. 1000 gal.

PROSPER, 500.
PROSPER WATERWORKS CO.
Pres.. A. M. Burke.....Prosper
Sec. & Treas., J. M. Coleman..... "
Engr. P'g. Sta., B. Burke..... "
Wells, 2 tubular 4 & 6-in. 625 ft. deep; no purification.
Pump driven by gasoline engine, 9-hp. F. M.; pumping to elev. tank, 22,000 gal. wood.
Pipe, one mi. 4 to 12-in. w. i.; meters, 2; av. daily cons. 8000 gal.; serv. con. 70; ord. pres. 5 to 60 lb.
Rates; flat, $1.25 mo.; meter, 50c. 1000 gal.

RICHMOND, 1,371.
RICHMOND WATER WORKS CO.
Mgr., R. F. Ransom.....Richmond

ROCKDALE, 2,073.
ROCKDALE WATER & LIGHT CO.
Pres. & Gen. Mgr., Leonard Isaacs, Rockdale
V. Pres., Dr. F. B. King.....Houston
Sec. & Treas., C. R. Isaacs.....Rockdale
Supt. & Engr. P'g. Sta.,
A. A. Offield..... "
Boilers, 170-hp. Ames; steam engine, 150-hp. Allis-C.

ROGERS, 1,275.
Owned by Frank Leahy.
Supt., Frank Leahy.....Rogers
Lake & River; one mi. from center distribution; no purification
Pumps, 2-360,000 gal. triplex Deming driven by gasoline engines, 20 & 35-hp. Callahan & Field; pumping to elev. tank, 50,000 gal. steel
Pipe, 8 mi. 4 to 12-in. steel; hyd. 20, hose con. 2½-im Kupferle; valves, 12 r. h. thd. Crane; meters, 300 Pittsburgh; av. daily cons. 600,000 gal.; serv. con. 320; ord. pres. 55 lb., fire pres. same.
Rates; meter, min. charge $1.50 for 1500 gal., 50c. 1000 gal.

ROSENBERG, 1,198.
MUNICIPAL.
Mayor, H. A. Meyer.....Rosenberg

ROTAN, 1,126.
ROTAN WATER & LIGHT CO.
Pres. & Contg. Agt., W. A. Webb....Dallas
Sec. & Treas., F. H. McCartney.....Waco
Mgr. & Engr. P'g. Sta., G. M. Green.Rotan
Boiler, 100-hp. Marine; steam engine, 75-hp. Murray.

ROYSE CITY, 1,210.
MUNICIPAL.
Mayor, A. Hurst.....Royse City
City Sec., J. C. Barton..... " "
Supt. & Engr. P'g. Sta.,
Will Tubbs..... " "
Impounding reservoir, Royse City Lake; ¼ mi. from center business section; pump driven by gasoline engine, 10-hp. F. M. 1914; pumping to standpipe (1910) 60,000 gal.
Pipe, 1.5 mi. 4 & 8-in. wood; hyd. 20, hose con. 2½-in.; valves, 7 l. h. opening; meters, 8; av. daily cons. 25,000 gal. 80%; serv. con. 150; ord. pres. 45 to 50 lb.
Rates; flat, 75c. mo., bath 25c.& meters, min. charge $1 mo. 1000 gal., 35c. 1000 gal.

RUNGE, 1,100.

MUNICIPAL.

Mayor, G. Tips.....Runge
Comr., F. J. Slavik..... "
" I. S. Moore..... "
Cons. Engrs.,
Bartlett & Ranney.....San Antonio
Engr. P'g. Sta., J. G. Bolden.....Runge

Well, 12-in. 160 ft. deep; reservoir, 50,000 gal.

Boiler, return tubular 80-hp. Brownell; oil fuel; pump, 1-500,000 gal.; pumping direct & to elev. tank, 50,000 gal. steel.

Pipe, 1.5 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 3-in.; ord. pres. 50 lb., fire pres. 100 lb.

SABINAL, 1,640.

SABINAL WATER & ICE CO.

Pres., J. A. Matthews.....Sabinal
V Pres., L. Heard..... "
Sec., Treas. & Mgr., J. W. Cooper... "
Engr. P'g. Sta., J. N. Eagan..... "

Gas engine, 100-hp. F. M.; steam engine, 80-hp. Atlas.

SAN ANGELO, 10,321.

SAN ANGELO WATER, LIGHT & POWER CO. (Controlled by Interstate Elec. Corpn., 115 Broadway, New York, N. Y.)
Pres., Chas. W. Hobbs.....San Antonio
V. Pres. & Mgr., W. A. Guthrie " "
Sec., M. F. Meadwell..... " "
Cons. Engrs., Roosevelt & Thompson, 71 Broadway, New York, N. Y.
Engr. P'g. Sta., Ed. Burrows...San Antonio

Conelos River, fed by springs; one mi. from center distribution; slow sand filter, 1,000,000 gal.

Boilers, 2 water-tube 700-hp. B. & W.; oil fuel; pumps, 2-3,500,000 gal. Deane; pumping to standpipe (1906) steel.

Pipe, 30 mi. 4 to 12-in.; hyd. 80, hose con. 2½-in. Columbian; valves, 75 r. h. thd. Crane; meters, 1400 Neptune & National; av. daily cons. 1,000,000 gal.; serv. con. 1500; ord. pres. 60 to 80 lb., fire pres. 90 to 110 lb.

Rates; all meter, min. charge $1.25 mo. 4000 gal., 25c. 1000 gal. max., 15c. min.

SAN ANTONIO, 96,614.

SAN ANTONIO WATER SUPPLY CO.

Pres., H. S. Ames,
Miss. Valley TrustCo., St. Louis, Mo.
Sec., H. D. Ellsworth.....San Antonio
V. Pres., Gen. Mgr. & Pur. Agt.,
Robt. J. Harding..... " "
Supt., H. J. Weierhauser..... " "
Engr. P'g. Sta.,
A. C. Hagewood..... " "

Wells, 16 artesian 8 & 12-in.; near center business section; no purification.

Boilers, 4 250-hp. ea. 150 lb. B. & W. 1903, 3 250-hp. 150 lb. B. & W. 1910; hand stoking; pumps, 1-20,000,000 gal. steam, 1-15,000,000 gal. steam, 1-5,000,000 gal. hor. triplex Worth. 1897, 4-3,000,000 gal. ea. hor. triplex Goulds 1890, 2-8,000,000 gal. ea. hor. centrifugal DeLaval 1915 geared to steam turbines; sream engines, 10-hp. G. E. 1911, 165-hp. Murray 1901; elec. motors, 2 10-hp. ea. 110 v. 3 ph. G. E. 1911; pumping direct & to reservoir, 5,000,000 gal.

Pipe, 200 mi. 4 to 30-in. c. i.; hyd. 1700; meters, 7000; av. daily cons. 12,000,000 gal.; serv. con. 23,000; ord. pres. 80 to 90 lb., fire pres. 90 to 120 lb.

Rates; meter, 11.2c. 1000 gal.

SAN BENITO, 925.

SAN BENITO LAND & WATER CO.

Receiver, E. F. Rowson.....San Benito
Pres., G. A. Robertson..... " "
Supt. & Des. Engr., R. A. Riddle " "
Engr. P'g. Sta., A. B. Hitton.... " "

Rio Grande River by way of irrigation canal; 20 mi. from center distribution.

Pump driven by gasoline engines, two 50-hp. F. M.; pumping direct & to elev. tank (1910) 40,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. c. i., w. i. & wood; hyd. 5, hose con. 2½-in.; meters, 4 National; av. daily cons. 250,000 gal.; serv. con. 470; ord. pres. 43 lb., fire pres. same.

Rates; meter, min. charge $1.50 mo.; 25c. 1000 gal. max., 10c. min.

SAN MARCOS, 4,071.

SAN MRACOS UTILITIES CO.

Pres. & Treas., J. M. Cape.....San Marcos
Mgr., A. F. Wilson..... " "
Sec., C. B. Osborn..... " "
Supt., W. N. Joiner..... " "
Engr. P'g. Sta., A. E. Stoltz.... " "

San Marcos River; ¾ mi. from center distribution; no purification.

Boiler, water-tube 150-hp. Heine; hand stoking; pumps, 2-2,000,000 gal. Goulds & F. M.; pumping to reservoir, 380,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. R. D. W., Nelson, Kupferle & Darling; valves, 75 l. h. opening Eddy & Crane; meters, 300 Pittsburgh & National; av. daily cons. 700,000 gal.; serv. con. 650; ord. pres. 81 to 86 lb., fire pres. 86 to 100 lb.

Rates; meter, 40c. 1000 gal. max., 15c. min.

SAN SABA, 1,200.

SAN SABA WATER COMPANY.

Pres., T. H. Murray.....San Saba
V. Pres., W. A. Hudson..... " "
Sec., Treas. & Supt.,
S. E. W. Hudson..... " "

Springs; ½ mi. from center distribution.

Pump, 1-423,000 gal. Worth. driven by gasoline engine, 25-hp. Tipps; pumping to elev. tank, 100,000 gal. steel.

Pipe, 7 mi. 4 to 6-in. c. i.; hyd. 12, hose con. 2½-in. Kupferle & Rensselaer; valves, 8 r. h. thd.; meters, 75 Pittsburgh; av. daily cons. 75,000 gal.; serv. con. 250; ord. pres. 60 lb., fire pres. same.

SEALY, 1,225.

SEALY WATER COMPANY.

Supt. & Owner, R. N. Haynes.....Sealy
Engr. P'g. Sta., C. M. Massey..... "

Wells, 2 open 8 ft. in diam. 98 & 163 ft. deep; ¾ mi. from center distribution; no purification.

Pumps, 4-216,000 gal. Meyers belted to gasoline engines, two 18-hp. Foos & Reeves; elec. motor, 110 v. s. ph. 60 cys. Century; elec. energy from Sealy Light & Power Co.; pumping to elev. tank (1914) 35,000 gal. steel & concrete.

Pipe, 3 mi. 4 to 12-in. c. i.; av. daily cons. 75,000 gal.; serv. con. 201; ord. pres. 35 to 40 lb.

SEGUIN, 3,116.

MUNICIPAL.

Pres. Trustees, J. T. Holmes.....Seguin
Treas., H. A. Krezdorn, Jr..... "
Sec., J. M. Vivroux..... "
Mgr., O. A. Gafford..... "
Engr. P'g. Sta., N. D. Riddle..... "

Guadalupe River; 1.5 mi. from center business section.

Pumps, 2 hor. duplex Gordon driven by water turbines, two 150-hp. ea. Morgan-Smith; elec. motor, 35-hp. 220 v. 2 ph. 60 cys. Western; elec. energy from Seguin Electric Light & Power Co.

Rates; flat, $1 mo.

SHERMAN, 12,412.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Supt., H. L. McDuffie.....Sherman
Engr. P'g. Sta., Geo. Stephens..... "

Wells, 800 ft. deep.

Boilers, 2 water-tube & marine 300-hp. ea. Atlas; hand stoking; pumps, 4-7,000,000 gal. American, Worth. & Goulds; oil engines, 180-hp. De La Vergne & 170-hp. Diesel; pumping direct & to standpipe.

Pipe, 31 mi. 4 to 12-in. c. i.; hyd. 283, hose con. 2½-in. various; valves, 123 r. & l. h. thd. various; meters, 2910 various; av. daily cons. 800,000 gal.; serv. con. 3000; ord. pres. 50 to 60 lb.

Rates; meter, 50c. 1000 gal. max., 20c. min.

SMITHVILLE, 3,167.

SMITHVILLE ELECTRIC LIGHT, WATER & POWER CO.

Owner & Mgr., Emil Buescher....Smithville

Colorado River & wells, 2 artesian 8-in. 650 ft. deep; at center distribution; reservoir, 25,000 gal.; no purification.

Boiler, 2 fire-tube 150-hp. Ames; hand stoking; pipes, 4-720,000 gal. ea. Platt; air compressor, Platt; elec. motors, 225-hp. & 30-hp. 220 v. 2 ph. 60 cys.; pumping direct.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2-in. Nelson; valves, r. h. thd. Crane; meters, 50 National; av. daily cons. 750,000 gal.; serv. con. 600; ord. pres. 40 to 60 lb., fire pres. 60 to 120 lb.

Rates; flat, $1 mo., bath 25c., closet 25c.; meter, min. charge $1 mo., 25c. 1000 gal.

SONORA, 783.

J. D. EATON & SONS.

Pres., J. D. Eaton.....Sonora
Gen. Mgr., W. E. Eaton..... "

Wells, 6 tubular 8-in. 300 ft. deep; ¼ mi. from center business section; settling basins, 2-300,000 gal.; no purification.

Pumps, 2-60,000 gal. ea. vert. duplex belted to gasoline engines, 5, 15 & 10-hp.; pumping to tanks.

Pipe, 10 mi. ¾ to 6-in. w. i.; hyd. 10, hose con. 2½-in Kupferle; valves, 2 r. h. opening; meters, 60 Buffalo; av. daily cons. 40,000 gal. 100 %; serv. con. 200; ord. pres. 45 lb., fire pres. same.

Rates; flat, $1.75 mo., bath $1, closet $1; meter, min. charge $1.75 mo. 3000 gal., 35c. 1000 gal.

SOUTH KINGSTON, 5,176.

Supplied by Wakefield Water Co.

STAMFORD, 3,902.

SWENSON & SON. Office, 61 Broadway, New York, N. Y.

STEPHENVILLE, 2,561.

Pres., C. H. Dentini.....Ft. Worth
V. Pres. & Mgr., W. B. Head...Stephenville
Sec., H. B. Burrough..... "
Treas., E. H. Pelleng..... "
Supt. & Engr. P'g. Sta.,
H. M. Lumkin..... "

Boiler, 250-hp. Frost; gas engine & gas producer, 100-hp. F. M.; steam engine, 225-hp. Skinner.

TAYLOR, 5,314.

TAYLOR WATER CO.

Mgr. & Supt., H. A. Bittick.....Taylor

Artesian wells; one mi. from center distribution.

Gravity distribution from standpipe (1890) iron.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 46, hose con. 2½-in. Columbian; valves, 70 l. h. opening Crane; meters, 875 Thomson & Pittsburgh; av. daily cons. 350,000 gal.; serv. con. 1360; ord. pres. 40 to 50 lb., fire pres. 75 to 110 lb.

TEAGUE, 3,288.

MUNICIPAL.

Supt., C. B. Ganaway.....Teague

TEMPLE, 10,993.

MUNICIPAL.

Chmn. Comrs., J. K. Campbell.....Temple
Comr., Alex. Dienst..... "
" J. A. Talley..... "
Sec., C. W. Caldwell..... "
Sipt., D. M. Seybold..... "
Cons., Engr., R. D. Morgan..... "
Engr. P'g. Sta., Bob Moore..... "
Chemist, Dr. J. E. Robinson..... "

Leon River; 6 mi. from center business section; settling basin, 500,000 gal.; mechanical filters, 2,000,000 gal. Pittsburgh; chemical, sulphate of alumina.

Boilers, 3 return tubular 150-hp. ea. 125 lb., 2 return tubular 125-hp. ea. 110 lb.; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Worth., 2-2,000,000 gal. ea. hor. tri. exp. d. act. McGowan, 3-3,000,000 gal. ea. hor. comp. c. & f. wh. Allis-C., 1-1,000,000 gal. hor. comp. d. act. Worth., 2-3,000,000 gal. ea. vert. tri. exp. McGowan, 1-2,000,000 gal. hor. centrifugal Alberger 1915 d. con. to elec. motor, 150-hp. 220 v. 3 ph. 60 cys. G. E., 2-1,000,000 gal. ea. hor. centrifugal Alberger 1915 d. con. to elec. motors, 2 75-hp. ea. 220 v. 3 ph. 60 cys. G. E.; elec. energy from Texas Power & Light Co.; pumping to standpipe (1895) 209,000 gal.

Pipe, 30 mi. 4 to 18-in. c. i.; hyd. 50, hose con. 2½-in. Rensselaer & Kennedy; valves, 150 r. h. opening; meters, 1400; av. daily cons. 1,500,000 gal.; serv. con. 3000; ord. pres. 58 lb., fire pres. 100 lb.

Rates; flat, $3.75 quarter, bath $1.50, closet $1.50; meter, 25c. 1000 gal. max., 10c. min.

TEXAS CITY, 650.

TEXAS CITY ELECTRIC LIGHT & WATER Co.

Pres., I. J. Davis.....Texas City
V. Pres. & Gen. Mgr.,
H. B. Moore..... " "
Supt., R. C. Trube..... " "
Cons. Engrs.,
L. L. Summers & Co..... " "

Wells, 3 artesian 8-in. 800 ft. deep; at center distribution; reservoir, 250,000 gal.; no purification.

Pumps, 2-1,440,000 gal. Lawrence d. con. to elec. motor, 70-hp. 2200 v. 3 ph. 60 cys. G. E.; air compressors, 2 Ingersoll-Rand & Clayton; pumping to elev. tank (1910) 100,000 gal. iron.

Pipe, 5 mi. 6 to 8-in. c. i.; hyd. 26, hose con. 2¼-in. Eddy; meters, 480 Pittsburgh; av. daily cons. 455,000 gal.; serv. con. 480; ord. pres. 30 to 42 lb., fire pres. 42 to 60 lb.

Rates; all meter, min. charge $1 mo. 3000 gal., 25c. 1000 gal. max., 12c. min.

TEXARKANA, 9,790.

Supplied by Texarkana Water Company. See Texarkana, Ark.

VALLEY MILLS, 708.

VALLEY MILLS WATER Co.

Pres., A. A. McNeill.....Valley Mills

Artesian well, 8-in 1000 ft. deep; at center business section; no purification; distribution from standpipe (1914) 50,000 gal.

Av. daily cons. 300,000 gal.; serv. con. 600.

Rates; flat, $3 quarter, bath $1.50, closet 50c.

VENUS, 495.

VENUS LIGHT & WATER Co.

Owner & Mgr., A. D. Frost.....Venus

Wells, 2 tubular 3-in. 260-ft. deep; at center distribution; no purification.

Pumps, 3-1,440,000 gal. Meyer, Texas & Goulds belted to elec. motors, 220 v. d. c. G. E.; gasoline engines, 16 & 25-hp. F. M.; pumping to elev. tank, 30,000 gal. wood.

Hyd. 4, hose con. 2½-in. Crane; av. daily cons. 20,000 gal.: serv. con. 150; ord. pres. 16 to 30 lb., fire pres. 30 lb.

Rates; flat, $1 mo., bath 25c., closet 50c.

VERNON, 3,195.

MUNICIPAL.

Supt., A. J. Robinson.....Vernon
Engr. P'g. Sta., Geo. Gann..... "

Wells, 5 tubular 4-in., one 7 ft. in diam. & one 15 ft. in diam. 35 to 50 ft. deep; ½ mi. from center distribution.

Boilers, two 25 & 50-hp. Brownell; hand stoking; pumps, 1-756,000 gal. Platt; 1-288,000 gal. Platt; pumping to elev. tank, 60,000 gal. steel.

Pipe, 5.4 mi. 4 to 12-in. c. i.; hyd. 49, hose con. 2½-in. Nelson & Kupferle; valves, 87 Crane; meters, 200 Buffalo, Union & Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 330; ord. pres. 35 to 42 lb., fire pres. 100 lb.

Rates; meter, min. charge $1 mo. 4000 gal., 20c. 1000 gal. max., 15c. min.

VICTORIA, 3,673.

MUNICIPAL.

Supt., Wm. Wheeler.....Victoria

WACO, 26,425.

MUNICIPAL.

Supt., S. J. Quay.....Waco
Cons. Engr., N. Werenskiold.....Dallas
Sec., E. L. Fulkerson.....Waco
Engr. P'g. Sta., N. Geil..... "
Chemist, C. W. Saxe..... "

Brazos River & artesian wells, 6 & 8-in. 1800 to 2100 ft. deep; near center distribution; settling & coagulating basin, 125,000 gal.; mech. filters, 5,000,000 gal.; chemicals, hypochlorite of lime, sulphate of iron & lime.

Boilers, 3 water-tube 170-hp. ea. O'Brien, 2 water-tube 200 -hp. ea. Heine, 2 water-tube 150-hp. ea. Casey-Hegdes; hand stoking; pumps, 2-5,000,000 gal. Allis-C., 2-5,000,000 gal. ea. Worth., 1-300,000 gal. Worth., 1-200,000 gal. Deane, 2-6,500,000 gal. centrifugal Allis-C.; pumping direct & to standpipe (1913) w. i.

Hyd. 600, hose con. 2½ & 3½-in. mostly R. D. W. & Columbian; valves, l. h. thd. Crane & Rensselaer; meters, 2500 motlys National; av. daily cons. 6,500,000 gal.; serv. con. 9,000; ord. pres. 30 to 95 lb., fire pres. same.

Rates; meter, min. charge $1 mo. 2500 gal., 28c. 1000 gal. max., 12½c. min.

WAELDER, *1,000.

WAELDER WATER Co.

Owner, E. E. Smith.....Waelder
Mgr., E. L. Owen..... "

Wells, 2 tubular 4 & 8-in. 700 ft. deep; no purification.

Pumps, 2-144,000 gal. deep well American driven by gas engines, 6 & 16-hp.; pumping

to elev. tanks, 42,000 gal. wood; av. daily cons. 75,000 gal.; serv. con. 118.

WARREN, 6,585.

Supplied by Bristol & Warren Water Co. See Bristol.

WAXAHACHIE, 6,205.

MUNICIPAL.

Mayor, Burton Prince.....Waxahachie
Chmn. Comrs., J. T. Andrews.. "
Sec., Earl Gibson..... "
Supt., P. F. Devenport..... "

Wells, 5 artesian 6 & 8-in. 981 to 2,939 ft. deep; near center distribution; reservoirs, 199,000 gal.; no purification.

Boilers, 2 100 & 150-hp. Casey-Hedges; oil fuel; pumps, 2-1,000,000 gal. Worth. & Deane; air compressors, 2 L-D-G; pumping to reservoir, 500,000 gal. & standpipe (1886, 1914) steel.

Pipe, 11. 5mi. 4 to 12-in. c. i.; hyd. 81, hose con. 2½ to 4-in. Rensselaer; valves, 76 l. h. opening Ceane; meters, 1050 various; av. daily cons. 350,000 gal.; serv. con. 1150; ord. pres. 20 to 76 lb., fire pres. same.

Rates; all meter, min. 75c. mo., 50c. 1000 gal. max., 25c. min.

WEATHERFORD, 5,074.

CITY OF WEATHERFORD WATER, LIGHT & ICE CO.

Pres., Jas. B. Rathbone.....Elmira, N. Y.
Sec. & Treas., Edw. J. Dunn.. " "
Gen. Mgr., B. F. Cherry.....Weatherford
Engr. P'g. Sta., E. A. Thomas.. "

Wells, 3 tubular 6 to 10-in. 1400 ft. deep; near center business section; reservoir, 1,333,000 gal.; no purification.

Boilers, 2 return tubular 80-hp. ea. 110 lb. Gem 1905, return tubular 150-hp. 110 lb. lb. Excelsior 1911; hand stoking; pumps, 2-720,000 gal. hor. comp. d. act. Deane 1890, 1-360,000 gal. hor. s. d. act. Ames 1900, 1-150,000 gal. vert. duplex geared to elec. motor, 20-hp. 220 v. 3 ph. 60 cys. G. E. 1914, 1-60,000 gal. vert. s. belted to elec. motor, 15-hp. 220 v. 3 ph. 60 cys. Westg. 1910, 1-50,000 gal. vert. s. belted to elec. motor, 10-hp. 220 v. 3 ph. 60 cys. G. E. 1914; steam engines, 175-hp. Harrisburg 1914, 200-hp. McIntosh 1914; pumping to reservoirs above.

Pipe, 5 mi. 4 to 10-in. c. i.; hyd. 50, hose con. 2¼-in. Kupferle; valves, 40 r. h. opening; meters, 375 Neptune, Pittsburgh & Worth.; av. daily cons. 150,000 gal.; serv. con. 5000; ord. pres. 25 to 65 lb., fire pres. 25 to 100 lb.

Rates; all meter, min. charge $1 mo. 2000 gal, 50c. 1000 gal. max., 35 min.

WEST, 1,645.

WEST WATER, POWER & LIGHT CO.

Pres., J. A. West.....West
Treas., W. R. Glasgow..... "
Sec. & Treas., B. B. Ingraham..... "
Des. Engr., A. L. Martin.....West

Artesian well, 2000 ft. deep.

Boilers, 2 tubular 40 & 80-hp.; pumps, 1-864,000 gal. Worth.; pumping to standpipe (1904) 75,000 gal. iron.

Pipe, 5 mi. 4 to 12-in. c. i.; hyd. 19, hose con. 2¼-in.; meters, 60 various; av. daily cons. 125,000 gal.; serv. con. 600; ord. pres. 50 lb., fire pres. same.

Rates; meter, min. charge $3 quarter 6000 gal.; 40c. 1000 gal.

WEST WARWICK, 26,629.

PAWTUXET VALLEY WATER CO.

Pres., E. Arnold.....West Warwick
Treas., E. W. Whitford..... " "
Supt. & Engr. P'g. Sta.,
A. Hill..... " "

Spring Lake & impounding reservoir, 2-285,000,000 gal.; 2.5 mi. from center of business section; no purification; gravity distribution.

Pipe, 21.5 mi. 4 to 12-in. c. i.; hyd. 200, hose con. 2¼-in. Ludlow; valves, 150 r. h. Ludlow; meters, 240; serv. con. 800; ord. pres. 40 to 96 lb., fire pres. same.

Rates; flat $6, bath $5, closet $5; meter, min. charge $15 yr., 30c. 1000 gal.

WHARTON, 1,505.

MUNICIPAL.

Mayor, G. S. Gordon.....Wharton
Supt., J. A. Mayes..... "
Des. Engr., M. G. Rugely..... "
Engr. P'g. Sta., Jack Mayes..... "

Well, 308 ft. deep; near center distribution.

Pumps, 2-20,000 gal. Goulds driven by gasoline engines, 35-hp. Foos & 35-hp. Muncie; pumping to elev. tank, 50,000 gal. iron.

Hyd. 50, hose con. 2¼-in.; meters, 350 National; serv. con. 450.

Rates; meter, min. charge $1 for 2000 gal., 25c. 1000 gal. max., 10c. min.

WHITESBORO, 1,219.

MUNICIPAL.

Supt., C. V. Pearce.....Whitesboro
Sec., J. C. Jones..... "
Engr. P'g. Sta., E. C. Love..... "

Wells, 2 tubular 8-in. 330 ft. deep; near center distribution; reservoir, 80,000 gal.; no purification.

Pumps, 1-65,000 gal. Luitweiler, 1-172,-800 gal. American belted to gas engine, 18-hp. Olds & elec. motor, 7 kw. 110 v. 3 ph. 60 cys. Allis-C.; elec. energy from municipal plant; pumping to standpipe (1906) steel.

Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 50, hose con. 2¼-in.; meters, 186 various; av. daily cons. 15,000 gal.; serv. con. 286; ord. pres. 43 lb., fire pres. same.

Rates; meter, 50c. 1000 gal.

WHITEWRIGHT, 1,563.

MUNICIPAL.

Supt., L. La Roe.....Whitewright

WHITNEY, 766.
WHITNEY WATER CO.
Supt., F. O. Hunter.....Whitney
Clerk, A. D. Rhea..... "
Artesian wells.

WICHITA FALLS, 8,200.
WICHITA FALLS WATER CO.
Supt., F. H. Lawton.....Wichita Falls
Lake Wichita, 30,000,000 gal.; 6 mi. from center distribution; settling basin, 4,000,000 gal.; chemical, hypochlorite of lime.
Pump driven by elec. motor, 3 150-hp. 2300 v. 3 ph. 60 cys. G. E.; elec. energy from Wichita Falls Elec. Co.; pumping direct & to elev. tank, 1000,000 gal. iron.
Pipe, 35 mi. 4 to 12-in. c. i.; hyd. 71, hose con. 4-in. Rensselaer; meters, 1500 Pittsburgh & Neptune; av. daily cons. 1,000,000 gal. serv. con. 18,000; ord. pres. 50 to 85 lb., fire pres. 100 lb.
Rates; flat, $1 mo.; meter, 25c. 1000 gal.

WILLS POINT, 1,398.
MUNICIPAL.
Mayor, H. H. Gilchrist.....Wills Point
Sec., A. B. Damson..... " "
Impounding reservoir, 150,000,000 gal.; pump, 1-600,000 gal. triplex Bessemer 1915 d. con. to oil engine.

WINTERS, 1,347.
MUNICIPAL.
City Sec., Guy T. McDonald.....Winters

WOLF CITY, 1,402.
MUNICIPAL.
Mayor, J. W. Hopkins.....Wolf City

YOAKUM, 4,657.
YOAKUM POWER, LIGHT & WATER CO.
Pres. & Mgr., L. L. Stephenson....Yoakum
V. Pres., H. W. Wallace..... "
Sec., John A. Donaldson..... "
Wells, 2 artesian 4 & 8-in. 1300 & 2496 ft. deep; near center distribution; reservoir, 30 ft. in diam. 14 ft. deep; no purification.
Boilers, 3 tubular 400-hp. Alamo & Brownell; hand stoking; pumps, 1-2,160,000 gal. triplex Platt, 1-1,000,000 gal. Platt, 1-1,440,;00 gal. F. M.; elec. motor, 10 kw. 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1898).
Pipe, 7.5 mi. 4 to 12-in. c. & w. i.; hyd. 80, hose con. 2¼-in. Bourbon; valves, 20; meters, 272 National; av. daily cons. 400,000 gal.; serv. con. 1200; ord. pres. 27 to 32 lb., fire pres. 100 to 110 lb.
Rates; flat, $1 mo., bath & closet 50c.; meter, min. charge $1.50 mo. 3000 gal., 50c. 1000 gal.

UTAH

BRIGHAM, 3,685.
MUNICIPAL.
Supt., F. Y. Jensen.....Brigham

EPHRAIM, 2,296.
MUNICIPAL.
Supt., F. Y. Jensen.....Ephraim
Birch Creek & springs; 3 mi. from center distribution.
Gravity distribution from reservoir, 250,000 gal.
Hyd. 18, hose con. 3-in.; valves, 12; av. daily cons. 288,000 gal.; serv. con. 470; ord. pres. 100 lb.
Rates: flat, $6 year, bath 55c., closet $2.

FAIR VIEW, 1,218.
FAIR VIEW WATER WORKS CO.
Supt., E. H. Anderson.....Fair View

FILLMORE, 1,191.
MUNICIPAL.
Supt., R. Bame.....Fillmore

HEBER, 2,031.
MUNICIPAL.
Comr., Jno. H. Hicken.....Heber
" J. A. Rasband..... "
" John H. Murdock..... "
Supt., E. P. Cliff..... "
1.5 mi. from center business section; gravity distribution.
Pipe, 10 mi. 2 to 8-in. w. i., galv. i. & kalamein; hyd. 4, hose con. 3-in. Crane; valves, 30 l. h. opening Crane; meters, none; serv. con. 407; ord. pres. 25 to 65 lb., fire pres. same.
Rates: flat, $4 year, bath 75c., closet $1.

GARLAND, *1,000.
UTAH-IDAHO SUGAR CO.
Pres., Joseph F. Smith.....Salt Lake City
V. Pres., & Gen. Mgr.,
Thos. R. Cutter..... " " "
Sec.-Treas., H. C. Whitney.. " " "
Pur. Agt., Geo. A. Smith.... " " "
Supt., T. H. Edwards.....Garland
Des. Engr., J. C. Wheelan..... "
Chemist, H. C. Cutter..... "
Impounding reservoir on Bear River; one mi. from center business section; no purification.
Gravity distribution.
Pipe, 2 mi. 1 to 24 in. c. i. & wood; hyd. 4.

MANTI, 2,423.
MUNICIPAL.
Mayor, J. B. Jacobson.....Manti
City Recorder, S. P. Peterson..... "
Chmn. Comrs., N. C. Christenson... "
Comrs., C. Axelson..... "
Supt., Ferd Garbe..... "
Springs; 3 mi. from business center; settling basin, 57,600 gal.; filtering tanks, 12.
Gravity distribution from reservoir, 288,000 gal.
Pipe, 2 mi. 4 to 12-in. kalamein; hyd. 6, hose con. 2½-in. Kupferle; valves, 44 r. h. thd. Crane; meters, 60 Pittsburgh & National; av. daily cons. 126,000 gal.; serv. con 450; ord. pres. 50 to 90 lb., fire pres. same.
Rates: flat, $6 year; meter, 15c. 1000 gal.

MILFORD, 1,014.
MUNICIPAL.
Mayor, Chesley Barton.....Milford

MT. PLEASANT, 2,280.
MUNICIPAL.
Supt., A. B. Waldemar....Mount Pleasant
Springs; 3 mi. from center distribution; settling basins, 300 x 10 ft.
Gravity distribution from reservoir, 50,000 gal.
Pipe, 13.5 mi. 3 to 10-in. wood; hyd. 24, hose con. 2½-in. Ludlow, Rensselaer, Kupferle & Eddy; valves, 42 r. h. thd. mostly Eddy & Crane; av. daily cons. 22,000 gal.; serv. con. 500.

OGDEN, 25,580.
MUNICIPAL.
Mayor, A. G. Fell.....Ogden
City Engr., W. Jenkins..... "
Supt., F. J. Henderstolt..... "
Cold Water Creek & artesian wells, 14; 5 to 7 mi. from center of business section; no purification; gravity distribution from reservoirs 2-21,500,000 gal.
Hy., 163, hose con. 2½-in. Ludlow; meters 420, mostly Neptune; av. daily cons. 7,000,000 gal.; serv. con. 6500; ord. pres. 80 to 90 lb., fire pres. same.
Rates: flat, $6.50 year, bath $1, closet $1.50; meters, 20c. 1000 gal. max, 5c. min.

PAYSON, 2,397.
MUNICIPAL.
Comr., Henry Erlandson.....Payson
Comr., Thomas L. Talhurst..... "
Supt., Wm. Clayson..... "
Cons. Engr.,
R. L. Lyman.....Salt Lake City
Springs; 3 to 5 mi. from center distribution.
Gravity distribution from reservoir, 350,000 gal.
Pipe, 4.5 mi 4 to 12-in. wood; hyd. 14, hose con. 2¼-in. Ludlow; valves, r. h. thd. Ludlow; serv. con. 235; ord. pres. 90 to 135 lb., fire pres. same.
Rates: flat, $6 year, bath 75c., closet $2.

PRICE, 1,021.
MUNICIPAL.
Supt. Albert Pace.....Price
City Recorder, L. A. Lauber..... "
Engr. P'g. St., A. J. Grames..... "
Impounding reservoirs on Price River, 2-6,000,000 gal; one mi. from center distribution; slow sand filters.
Pump, 1-500,000 gal. Krogh driven by elec. motors, 30-hp. 125 v. s. ph. 60 cys. Westg.; elec. energy from municipal light plant; pumping to reservoirs, above.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 3-in. Kupferle; valves, 30 l. h. thd. Matheson; meters, none; av. daily cons. 500,000 gal.; serv. con. 350; ord. pres. 30 to 45 lb., fire pres. 40 to 50 lb.

PROVO CITY, 8,925.

MUNICIPAL.

Supt., Rob. Snow.....Provo City

RICHFIELD, 2,559.

MUNICIPAL.

Supt. Henry Baker.....Richfield

ST. GEORGE, *1,800.

MUNICIPAL.

Mayor, John T. Woodbury.....St. George
City Recorder, David R. Forsha "
Supt., George Thompson..... "
Cons. Engr., I. C. Macfarlane... "

Cottonwood Creek; 14 mi. from center business section; reservoir, 100,000 gal.; settling basins, 50,000 gals.

Pipes, 8.5 mi. 4 to 8-in. wood; hyd. 9, hose con. 2½-in.; valves 13 r. h. opening, Ludlow; av. daily cons. 100,000 gal.; serv. con. 302; ord. pres. 50 to 265 lb., fire pres. same.

Rates: flat, 50c. mo.; bath, $1; closet, $1.50; meters, min. charge $6 year 3000 gal., 20c. 1000 gal. max., 15c. min.

SALINA, 1,082.

MUNICIPAL.

Comr., Chas. Neilsen.....Salina
" H. M. Crane..... "
City Engr., R. E. Ball..... "
Supt., F. M. Rasmussen..... "

Spring; 7.5 mi. from center distribution; no purification.

Gravity distribution from reservoir, 48,000 gal. concrete.

Pipe, 12 mi. 4-in. wood & steel; hyd. 8, hose con. 2½-in. Crane; valves, 15 r. h. thd.; meters, 13 Crane; av. daily cons. 90,000 gal.; serv. con. 205; ord. pres. 60 to 62.5 lb., fire pres. same.

Rates: flat, $8 year; meter, 25c. 1000 gal.

SALT LAKE CITY, 92,777.

MUNICIPAL.

Comrs., W. H. Shearman....Salt Lake City
Supt. Chas. F. Barrett..... " " "
Asst. Supt., Allan Macquarrie, Salt Lake City
Engr. P'g. Sta.,
Hyrum Thomson..... " " "
Ch. Clerk, E. R. Kneass.... " " "

Mountain stream; one to 26 mi. from center distribution; no purification.

Gravity distribution from reservoir, 9,000,000 gal.

Pipe, 259.5 mi. 4 to over 30-in. c. i.; hyd. 1830, hose con. 2½ & 3-in. Ludlow, R. D. W., Galvin & Rensselaer; valves, 3118 r. h. thd. Ludlow, Smith & Rensselaer; meters, 1750 Neptune, National & Thomson; av. daily cons. 18,616,000 gal.; serv. con. 18,500; ord. pres. 65 to 198 lb., fire pres. same.

Rates: flat, min. $4 year, bath $1, closet $2; meter, 7c. 1000 gal. max., 6c. min.

SMITHFIELD, 1,865.

EAST BENCH WATERWORKS CO.

Supt., Daniel Littledike.....Smithfield
City Recorder, Chas. McCann... "
Cons. Engr., Eugene Schaub.....Logan

Springs; 2.5 mi. from center distribution; settling basin, 10 x 12 x 6 ft.

Gravity distribution from reservoir, 30 x 20 x 12 ft.

Pipe, 7 mi. 4 to 12-in.; hyd. 3, hose con. 2-in.; valves, r. h. thd. Glauber; meters, none; serv. con. 350.

SPANISH FORT, 3,464.

MUNICIPAL.

Supt., David E. Robertson....Spanish Fort

SPRINGVILLE, 3,356.

MUNICIPAL.

City Recorder, John L. Whiting, Springville

VERNAL, 836.

MUNICIPAL.

Mayor, E. D. Samuels.....Vernal
City Clerk, G. E. Davis..... "
Supt. Frank Hatch..... "
Cons. Engr., Nile Hughel..... "

Ashley river; 2.5 miles from center of business section; settling basins, one; elev. tank, 10,000 gal. wood, Washington Pipe Co.

Pipe, 3.5 mi. 10-in. wood; hyd. 20, hose con. 3-in. Eureka; valves, 32 l. h. opening Ludlow; ord. pres. 65 to 75 lb., fire pres. same.

VERMONT

ALBANY, *300.
MUNICIPAL.
Supt., D. H. Hackett.....Albany
Springs; gravity distribution from reservoir, 4,600 gal.; pipe, 2 mi. 1 to 2-in. i.; hyd. none; meters, none; av. daily cons. 700 gals.; serv. con. 50; ord. pres. 30 lb.
Rates: flat, $3 6 mo., bath $5., closet $1.25.

BARRE, 10,734.
MUNICIPAL.
Comr., M. D. Keefe.....Barre
" John F. Cook..... "
" A. E. Bruce..... "
Supt., H. E. Reynolds..... "
City Engr., Geo. A. Reed..... "
Impounding reservoirs, 3-56,000,000 gal.; 6 & 7 mi. from center distribution; no purification.
Gravity distribution from reservoir.
Pipe, 65 mi. 4 to 16-in. c. i. & cement lined; hyd. 125, hose con. 2½-in. Chapman, R. D. W. & Rensselaer; valves, 180 l. h. thd. Chapman & Rensselaer; meters, 320 National, Neptune & Gamon; av. daily cons. 3,000,000 gal.; serv. con. 1720; ord. pres. 95 to 100 lb., fire pres. 130 to 135 lb.
Rates: flat, $6.50 year, bath $2, closet $3.

BARTON, 3,346.
MUNICIPAL.
Comr., A. A. Larabee.....Barton
" & Supt., E. G. Colliston.... "
" J. F. Batchelder..... "
Impounding reservoir on mountain stream 120 acres; settling basin, 24 ft. sq.
Gravity distribution from reservoirs, 2 acres.
Pipe, 6.5 mi. 4 to 12-in. c. i.; hyd. 35, hose con. 2½-in. Ludlow; valves, 12 l. h. opening Chapman; serv. con. 200; ord. pres. 130 lb., fire pres. same.
Rates: flat, $8 year, bath $1.50, closet $2.50.

BELLOWS FALLS, 4,883.
MUNICIPAL.
Trustee, Edward Kukland....Bellows Falls
" William Mandigo.... " "
Supt., J. S. Burnett..... " "
Cons. Engr., B. A. Robinson.. " "
Impounding reservoir, 195,000,000 gal.; 1.1 mi. from center distribution.
Gravity distribution from reservoir.
Pipe, 9.5 mi. 4 to 16-in. c. i.; hyd. 70 R. D. W.; valves, 100 r. & l. h. thd. Rensselaer; meters, 202 National & Pittsburgh; serv. con. 800; ord. pres. 100 to 150 lb., fire pres. same.
Rates: flat, $3 year, bath $1, closet $1; meter, 15c. 1000 gal.

BRADFORD, 631.
MUNICIPAL.
Supt., E. J. Libby.....Bradford
Springs; 3 mi. from center distribution.
Gravity distribution from reservoir, 1,500,000 gal.
Pipe, 4 mi. 4 to 12-in.; hyd. 33, hose con. 2½-in. R. D. W.; valves, 30 r. h. thd. Chapman; meters, none; serv. con. 185; ord. pres. 50 to 110 lb., fire pres. same.

BRIGHTON, 1,573.
MUNICIPAL.
Chmn. Comrs., C. E. Foss..... Brighton
Supt., D. P. MacKenzie..... "
Treas., G. E. Clarke..... "
Engr. P'g. Sta., H. H. Hobson... "
Chemist, Vermont State Laboratory, Burlington
Impounding reservoirs on mountain streams, 500,000 gal.; 3 mi. from center distribution; no purification.
Gravity distribution from reservoir.
Pipe, 11 mi. 4 to 10-in. c. i.; hyd. 54 Pratt & Cady & Ludlow; valves, 50 r. h. thd. Kennedy; meters, 3 National & Neptune; av. daily cons. 63,000 gal., serv. con. 380; ord. pres. 75 to 100 lb.
Rates: flat, min charge $9 year; meter, 15c. 100 cu. ft. max., 6½c. min.

BRISTOL, 1,180.
MUNICIPAL.
Comr. & Supt., F. H. Palmer.... Bristol
Chemist, State Laboratory of Hygiene, Burlington
Impounding reservoir on mountain stream 75,000 gal.; 5.5. mi. from center distribution.
Gravity distribution from reservoir.
Pipe, 12.5 mi. 4 to 12-in.; hyd. 54, hose con. 2½-in. Ludlow; valves, 30 r. h. thd. Ludlow; meters, 6 Pearce; av. daily cons. 125,000 gal.; serv. con. 300; ord. pres. 110 lb., fire pres. same.
Rates: flat, $5 year, bath $2, closet $2; meter, 8c. 100 cu. ft.

BURLINGTON, 20,648.
MUNICIPAL. BOARD OF WATER COMMISSIONERS.
Supt., W. H. Wilson.....Burlington
Asst. Supt., J. F. Kidder..... "
Lake Champlain.
Boilers, 2 hor. tubular 40-hp. each; pumps, 2-750,000 gal. comp. duplex Worth. 1900; pumping direct and to reservoir.
Pipe, 38 mi. 3 to 24-in. c. i. & cement lined; hyd. 181, hose con. 2½-in. mostly Lang; valves, 679 Ludlow & Coffin; av. daily cons. 1,009,000 gal.; ord. pres. 16 to 115 lb.

CHELSEA, 1,070.
WILSON SPRING WATER CO.
Owner & Supt., Stanley C. Wilson...Chelsea
Cons. Engr., Geo. C. Tutherly..... "
Springs & reservoirs, 2-6,000,000 gal.; 1.25 mi. from center distribution; settling basins, 9-1600 gal.
Gravity distribution from reservoirs.

Pipe, 3 mi. ½-in. to 1½-in. mostly galv. i.; serv. con. 14; ord. pres. 30 to 75 lb.

Rates: flat, $8 year, including bath & closet $15.

CHESTER, 666.

MUNICIPAL.

Comr., F. W. Adams.....Chester
" E. J. Davis..... "
" W. O. Davis..... "

Reservoir; 2 mi. from center business section; gravity distribution.

Pipe; 6 mi. 4 to 10-in. c. i.; hyd. 28, hose con. 2½-in. Boston; serv. con. 150; ord. pres. 130 lb.

Rates: flat, $7 6 mo., bath $3., closet $3.

DANVILLE, 828.

OWNED BY FIRE DISTRICT No. 1.

Comr., J. W. Gillis.....Danville
" H. S. Dole..... "
" H. M. Osgood..... "

Springs; 2 mi. from center business section; gravity distribution from reservoir.

Pipe, 5 mi.

Rates: flat, $5 year, bath $2, closet $1.

EAST DORSET, *1,500.

EAST DORSET WATER WORKS. (Privately owned.)

Owner & Mgr., G. F. Griffith..East Dorset

Springs, one-half mi. from center of business section.

ENOSBURG, 1,153.

MUNICIPAL.

Supt., D. I. Draper.....Enosburg

ESSEX JUNCTION, 1,245.

MUNICIPAL.

Chmn. Comrs., G. W. Allen, Essex Junction
Comr., R. O. Mudgett..... " "
" H. G. Gates..... " "
Supt., W. B. Nichols..... " "
Chemist, State Laboratory.....Burlington

Springs & wells, 2 artesian 8-in. 500-ft. deep; 4.5 mi. from center distribution; reservoirs, 2-42,000 gal.; no purification.

Pumps, 1-240,000 gal. vert. triplex Goulds 1914 belt driven from elec. motors, 10-hp. 1914, 1-84,000 gal. hor. duplex Goulds 1909 belt driven from gasoline engines; elec. energy from Burlington Light & Power Co.; pumping direct & to reservoirs, 3-45,000 gal. & standpipe (1909).

Pipe, 15 mi. 4 to 8-in. c. i.; hyd. 33, hose con. 3-in.; valves, 20 l. h. opening; meters, 125 National & Neptune; serv. con. 400; ord. pres. 55 lb., fire pres. same.

Rates: flat, $6 year, bath $1, closet $2; meter, min, charge $4.50 6 mo. 15,000 gal.

FAIR HAVEN, 3,095.

MUNICIPAL. Water & Sewer Comrs.

Chmn. Comr., G. E. Adams....Fair Haven
Comr., E. B. Clift..... " "
Comr., John Delehanty..... " "
Cons. Engr., A. C. Grover.....Rutland
Supt., John Delehanty.....Fair Haven

Inman Pond; 3.5 mi. from center business section; gravity distribution.

Pipe, 8 mi. 1 to 8-in. c. i.; hyd. 40, hose con. 3½-in. R. D. W.; valves, 14; meters, none; serv. con. 600; ord. pres. 35 to 85 lb.

Rates: flat, $5 year, bath $2.50, closet $3.

FRANKLIN, 500.

FRANKLIN WATER WORKS (Privately Owned).

Owner, Littie Dimon.....Franklin
" Ella M. Randall..... "

Spring; one mi. from center business section; no purification; gravity distribution.

Pipe, one mile, 1½ & 2½-in. wood; hyd. none; valves, 3 l. h. opening; meters, none; serv. con. 54; ord. pres. 100 lb.

Rates: flat, $8 year, bath $9, closet $10.

HARTFORD, 4,175.

WHITE RIVER WATER CO.

Pres., S. E. Pease.....Hartford
Sec., Treas., Gen. Mgr. & Pur. Agt.,
H. C. Pease..... "

Springs & reservoirs, 2-37,000 gal.; 2 mi. from center business section; gravity distribution.

Pipe, 4 mi. ¾ to 2-in. galv. i.; meters, 11 Gamon, Neptune & National; av. daily cons. 20,000 gal. 60%; serv. con. 83; ord. pres. 40 to 75 lb. fire pres. 100 lb.

Rates: flat, $8, bath $2, closet $3; meter, min. charge $3 quarter 10,000 gal., 33.3 1000 gal. max., 25c. min.

HARDWICK, 3,201.

MUNICIPAL.

Supt., A. J. Larhee.....Hardwick

IRASBURG, *1,000.

IRASBURG WATER CO.

Supt., Geo. W. Russell.....Irasburg

Springs; 2 mi. from center business section; gravity distribution reservoir, 75 x 50 x 18-ft.; service con. 60.

ISLAND POND, 1,573.

MUNICIPAL.

Supt., D. P. McKensey.....Island Pond

JOHNSON, 651.

MUNICIPAL.

Trustee, C. P. Jones.....Johnson
" H. C. Parker..... "
" Morris Hill..... "
Village clerk, G. A. Riddle..... "

Springs, 2 mi. from center business section; gravity distribution from reservoir, 40 x 60 x 14-ft.

Hyd. 21, hose con. 2½-in. Eddy; valves, 19 r. h. opening; ord. pres. 65 to 85 lb., fire pres. same.

Rates: flat $5 6-mo. bath, $2, closet $2.50.

LOWELL, 200.

J. H. SILSBY & CO., Office, Hartford, Conn.

Pres., J. H. Silsby,
20 Allyn St., Hartford, Conn.

Gen. Mgr., M. R. Alexander.....Lowell
Spring; ¼ mi. from center distribution. Gravity distribution.
Pipe, ¼ mi. 2 & 3-in.; hyd. 5, hose con. 2¼-in., serv. con. 2.

LUDLOW, 1,061.
MUNICIPAL.
Comr., Howard.....Ludlow

LYNDONVILLE, 1,573.
SCOTT M. FARNUM, Owner.
Supt., Scott M. Farnum.....Lyndonville
Gravity distribution from reservoir, 60 x 100 x 6 ft. & standpipe (1900) stone & concrete.
Pipe, 2 mi. 6-in. c. i.; hyd. 15, hose con. 2-in.; valves, 6; serv. con. 110; ord. pres. 90 lb.
Rates: flat, $10 quarter, bath 50c., closet 60c.

MANCHESTER, *2,000.
MANCHESTER WATER CO.
Pres., H. J. Marsden.....Manchester
V. Pres., J. N. Hughes..... "
Treas. & Mgr., A. B. Marsden.. "
Mountain spring; 1.5 mi. from center distribution; no purification.
Gravity distribution from reservoirs, 2-2,500,000 gal.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 60, hose con. 2½-in. Pratt & Cady & Eddy; valves, 40 r. h. thd. Eddy & Ludlow; meters, 275 various; av. daily cons. 64,000 gal.; serv. con. 395; ord. pres. 65 to 125 lb.

MONTGOMERY CENTER, 900.
MONTGOMERY WATER WORKS. (Privately owned).
Owners { C. E. Wilson,.....Mont. Cen.
C. T. Hall..... " "
Trout river; ½ mi. from center business section; gravity distribution.
Pipe, 1.5 mi. 4 to 8-in. c. i.; hyd. 10, hose con. 2½-in.; meters, none, ord. pres. 70, fire pres. 50 to 70 lb.
Rates: flat, $2.00 yr., bath, $2.00, closet, $2.00.

MONTPELIER, 7,856.
MUNICIPAL.
Comr., R. H. Standish.....Montpelier
" P. H. Ryan..... "
Supt., John J. Glinney..... "
Impounding reservoir on Burton Pond, 5,125,000 gal.; 3.5 & 6 mi. from center distribution; no purification.
Boiler, hor. 80-hp.; pump, 1-600,000 gal. Lawrence; gravity distribution from reservoir, 400,000 gal.
Pipe, 33 mi. 4 to 30-in. c. i.; hyd. 150, hose con. 2½-in. R. D. W. & Ludlow; valves, 155 r. h. thd. Ludlow; meters, 6 National; av. daily cons. 1,540,000 gal.; serv. con. 1360; ord. pres. 40 to 160 lb., fire pres. same.
Rates: meter, 20c. 1000 gal. max., 4c., min.

MORRISVILLE, 1,445.
MUNICIPAL WATER & LIGHT COMMISSION.
Comr., George M. Powers.....Morrisville
" C. H. Slocum..... "
" C. H. Stappard..... "
" C. A. Gile..... "
" A. G. Small..... "
Sec., C. A. Slayton..... "
Springs; 2.5 miles from center distribution.
Pumps, 1-144,000 gal. hor. centrifugal G. E. 1910 d. con. to elec. motor 15-hp. 550 v. 3 ph. 60 cys. 1910; water-turbine, 2-750 & 1,000-hp. S. Morgan Smith & Leffel; pumping to reservoir, 2-500,000 gal.
Pipes, 12 mi. 4 to 12-in. c. i.; hyd. 38; meters, 15 Neptune; av. daily cons. 144,000 gal.; serv. con. 500; ord. pres. 90 to 100 lb., fire pres. same.
Rates: flat, $7.00 yr., bath $3.00, closet, $3.00; meters, 15c. 100 cu. ft. max., 6.5 min.

NEWPORT, 3,684.
MUNICIPAL.
Comr., C. C. Davis.....Newport
" W. W. Blodgett..... "
" W. R. Prouty..... "
Treas. & Supt., C. F. Davis..... "
Impounding reservoir on lake, 1,000,000 gal.; 4 mi. from center distribution; no purification.
Gravity distribution from reservoir.
Pipe, 15 mi. 4 to 14-in. c. i.; hyd. 50, hose con. 2-in. R. D. W.; valves, 50 r. h. opening; meters, 35 National; av. daily cons. 500,000 gal.; serv. con. 1500; ord. pres. 125 lb.
Rates: meter, 10c. 1000 gal.

NORTH TROY, 771.
MUNICIPAL.
Chmn. Comr., J. L. Nason.....North Troy
Comr., E. G. Gardyn..... " "
" A. Place..... " "
Clerk, H. H. Lewis..... " "
Supt., J. L. Nason..... " "
Chemist, H. H. Butterfield..... " "
Springs: 13 miles from center of business section; gravity distribution from reservoir; 200 x 100 x 12 ft.
Pipe, 6 mi. 3 to 8-in. c. i.; hyd. 26, hose con. 2½-in.; valves, 28 r. & l. h. opening; serv. con. 200; ord. pres. 160 lb., fire pres. same.
Rates: flat, $5.00 6-mo., bath $1.50, closet $1.50.

NORTHFIELD, 3,226.
MUNICIPAL.
Comr., E. L. Field.....Northfield
" F. N. Carpenter..... "
" G. R. Andrews..... "
" G. A. Cross..... "
" M. J. Clough..... "
Supt., Frank N. Carpenter..... "
Cons. Engr., Frank L. Fuller,
12 Pearl St., Boston, Mass.

Springs: 2.5 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 2-250,000 gal. ea.

Pipe, 8.5 mi. 4 to 12-in. c. i.; hyd. 83, hose con. 2½-in. Rensselaer; valves, 111 l. h. thd. Rensselaer; meters, 225 National & Neptune; av. daily cons. 75,000 gal.; serv. con. 325; ord. pres. 85 to 160 lb., fire pres. same.

Rates: meter, min. charge $2.25 quarter 800 cu. ft., 22½c. 100 cu. ft. max., ⅛ discount on all over $5 quarter.

ORLEANS, 1,031.

MUNICIPAL.

Engr. & Fire Ch., O. W. Locke....Orleans

Willoughby River & Lake; 6 mi. from center distribution; no purification.

Gravity distribution; hyd. 35, hose con. 2½-in.; ord. pres. 80 lb.

PITTSFORD, 1,200.

PITTSFORD AQUEDUCT COMPANY.

Pres., Dr. H. F. Walker.....Pittsford
Treas., A. D. Tiffany..... "
Sec., S. K. Burbank..... "

Springs: 5 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 2-275,000 gal.

Pipe, 8 mi. 3 to 6-in. c. i.; hyd. 18, hose con. 2½-in.; meters, 225 National; av. daily cons. 250,000 gal.; serv. con. 230; ord. pres. 50 to 100 lb.

Rates: meter, min. charge $7 for 30,000 gal.

POWNAL, 1,000.

POWNAL WATER CO.

Pres., A. M. Gardner.....Pownal
Sec., Treas. & Gen. Mgr.,
A. G. Parker..... "

Springs & Merchant Brook; ¾ of a mile from center business section; reservoir, 500,000 gal.; no purification; gravity distribution.

Pipes, 3 mi. 2 to 5-in. w. i.; hyd. 8, hose con. 2½-in. Fairbanks & Ludlow; valves, 6 l. h. opening Ludlow & Jenkins; serv. con. 40, ord. pres. 60 to 80 lb. fire pres. same.

Rates: flat, $6.00 yr. bath, $3.00, closet, $3.00.

PROCTOR, 2,871.

MUNICIPAL.

Vil. Pres., Wm. P. Donahue.....Proctor
Trustee, Chas. Erickson..... "
" Dr. McGarry..... "
" H. C. Pratt..... "
Supt., Geo. Z. Thompson..... "

Springs: 8.5 mi. from center distribution.

Gravity distribution from standpipe (1897) steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 52, hose con. 2½-in. Chapman; valves, r. h. thd. Chapman; meters, none; av. daily cons. 14,000 gal.; serv. con. 350; ord. pres. 40 to 120.

Rates: flat, $6 year, bath $2, closet $2.

RANDOLPH, 3,191.

MUNICIPAL.

Chmn. Comrs., W. C. Emerson...Randolph
Comr., H. M. Totman..... "
" A. E. Bass..... "
" L. A. Russlow..... "
" J. H. Du Bois..... "
Supt., Fred C. Dudley..... "

Springs: ½ mi. from center distribution.

Pump, 1-57,600 gal. Douglass driven by gasoline engine, 8-hp. Abenaque; gravity distribution from reservoir, 250,000 gal.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 54, hose con. 2½-in. Ludlow; valves, 48 r. & l. h. opening Ludlow; serv. con. 442; ord. pres. 85 to 130 lb.

READSBORO, 835.

MUNICIPAL.

Comr. & Supt., G. S. Pike.....Readsboro
Town Clerk, C. G. Brown..... "

Impounding reservoir on Toby Creek; 3 mi. from center distribution; no purification.

Gravity distribution from reservoirs, 3-175,000 gal.

Pipe, 3 mi. 4 to 10-in. c. i.; hyd. 40, hose con. 2½-in.; valves, 22 r. & l. h. opening Ludlow; serv. con. 150; ord. pres. 90 to 110 lb.

Rates: flat, $1.50 quarter, bath 50c., closet 50c.

RICHFORD, 2,907.

MUNICIPAL.

Supt., R. M. Pelton.....Richford

Springs: 3 mi. from center of distribution; gravity distribution from reservoir, 2-1,500,000 gal.

Pipes, 10 mi. 4 to 12-in. c. i.; hyd. 20; hose con. 4; valves, 25 r. h. opening; meters, 2, Neptune; av. daily con. 100,000 gal.; serv. con. 350; ord. pres. 200, fire pres. same.

Rates: flat, $6 yr., bath, $2, closet, $2; meters, 15c. 1000 gal. max., 5c. min.

ROCHESTER, 1,250.

MUNICIPAL. Owned by Fire Dist. No. 1, Inc.

Comr., F. O. Kennedy.....Rochester
" H. C. Bronson..... "
" H. P. Nason..... "
Secy., H. C. Brownson..... "

Springs, 2 mi from center of business section; reservoir, 100,000 gal.; gravity distribution.

Pipes, 4 mi. 4 to 10-in. c. i.; hyd. 16, hose con. 2½-in.; valves, 10 l. h. opening; meters, one Hersey; serv. con. 98, ord. pres. 90 lb., fire pres. none.

Rates: flat, $6, 6-mo., bath, $1, closet $2, meters, 10c. 1000 gal.

ROYALTON, *1,452.
CITIZENS WATER CO.
Supt., G. W. Brown.....So. Royalton
Sec., A. G. Whiphan..... " "
Springs: ¾ mi. from center distribution; no purification.
Gravity distribution from reservoir, 3,000 gal.
Pipe, 550 ft. 6-in. c. i.; hyd. 3, hose con. 2½-in.; meters, 23 National; serv. con. 45; ord. pres. 130 lb.
Rates: flat, $8 year, bath $2, closet $3; meter, min. charge $1 mo. 2500 gal., 25c. per 500 gal.

ST. ALBANS, *6,381.
MUNICIPAL.
Supt., J. H. Kennedy.....St. Albans
City Clerk, B. M. Hopkins..... " "
Silver Lake; 4.5 mi. from center of business section; reservoir, 2-84,000,000 gal.; no purification; gravity distribution.
Pipes, 14.25 mi. 3 to 12-in. c. i. & cement; hyd. 100; hose con. 2½-in. Rensselaer; valves, 113 l. h. opening Rensselaer, Chapman & Kennedy; meters, 1300 Neptune, Buffalo, National & Union; av. daily cons. 785,000 gal.; serv. con. 1300, ord. pres. 115 to 135 lb.; fire pres. same.
Rates: meters, min. charge $6 year. 3000 cu. ft., 20c. 100 cu. ft.

ST. JOHNSBURY, *7,000.
ST. JOHNSBURY AQUEDUCT CO.
Pres., Henry Fairbanks.....St. Johnsbury
Secy., R. P. Clark..... " "
Treas., F. C. Bick..... " "
Gen. Mgr., F. H. Brooks..... " "
Pur. Agt., C. H. Horton..... " "
Supt., Wm. Witherbee..... " "
Cons. Engr., L. A. Taylor....Boston, Mass.
Lakes & springs: 5 mi. from center of business section; slow sand filters, 4-500,000 gal. ea.; gravity distribution.
Pipes, 24 mi. 6 to 14-in. c. i., steel; hyd. 60, hose con. 2½-in. Ludlow; valves, 138 r. h. opening Pratt & Cady; av. daily cons. 1,300,000; serv. con. 1200; ord. pres. 80 to 130 lb., fire pres. 80 to 130 lb.
Rates: flat, $8 yr., bath, $2.00, closet $2.

MUNICIPAL. Owned by the fire district for fire purposes only.
Trustee, H. C. Douchlen.....St. Johnsbury
Trustee-Supt. Engr. of P'g. Sta.,
W. A. Astle..... "
Passumpsic river: near center of business section; no purification.
Boilers, hor. tubular 110-hp. 85 lb. Allen 1892; hand stoking; pump, one hor. comp. d. act. Knowles 1892, one hor. Duplex Deem driven by water turbine; pumping d.; hyd. 96; hose con. 3-in.,; ord. pres. 75 lb., fire pres. 100 to 130 lb.

SHELDON, *1,360.
THE MISSISQUAI PULP & PAPER CO.
Pres., D. M. Shepley.....Sheldon
V. Pres., J. T. Shepley.....Sheldon
Supt., Herbert Raymond..... "
Des. Engr., Fred Dagels..... "
Sec., A. P. Rammage..... "
Missisquai River; near center of business section; slow sand filters.
Boilers, 4.

SPRINGFIELD, 4,784.
MUNICIPAL.
Chmn. Trustees, W. R. Wilcomb, Springfield
Trustee, M. L. Lawrence..... "
" H. O. Dodge..... "
Vil. Clerk, F. H. Spaulding..... "
Supt. & Pur. Agt., F. R. Lovell.. "
Impounding reservoirs on springs & brooks, 56,000,000 gal.; no purification.
Gravity distribution.
Pipe, 14 mi. 6 to 16-in. c. i.; hyd. 83, hose con. 2½-in. Ludlow; valves, 50 l. h. opening Ludlow; serv. con. 610; ord. pres. 115 lb.
Rates: meter, min. charge $6 year 30,000 gal., 20c. 1000 gal. max., 7½c. min.

SWANTON, 3,628.
MUNICIPAL.
Supt., C. J. Parker.....Swanton
Clerk & Pur. Agt., L. A. Lapelle... "
Fairfield Pond; 9 mi. from center distribution.
Gravity distribution from reservoir, 600,000 gal.
Pipe, wood; hyd. 31 Ludlow; valves, 68 r. h. thd. Ludlow; meters, none; av. daily cons. 500,000 gal.; serv. con. 480; ord. pres. 65 to 70 lb.
Rates: flat, $6 year, bath $3, closet $3; meter, 30c. 1000 gal.

WELLS RIVER, 608.
MUNICIPAL.
Trustee, H. L. Lyster.....Wells River
" N. H. Fields..... "
" John Thomas..... "
Wells River; ½ mi. from center distribution; settling basins, 80 x 30 x 15 ft.; slow sand filter.
Pump, 1-302,000 gal. Deane; gravity distribution from reservoir, above.
Hyd. 21, hose con. 2½-in.; valves, 7; meters, 10 National; serv. con. 75; ord. pres. 45 to 98 lb.
Rates: flat, $6 year; meter, 10c. 1000 gal.

WEST RUTLAND, 3,427.
WEST RUTLAND WATERWORKS CO.
Pres., Geo. C. Robinson.....West Rutland
V. Pres., F. A. Morse..... " "
Sec., Treas. & Pur. Agt.,
C. B. Ross..... " "
Impounding reservoir on mountain stream & springs, 20,000,000 gal.; 2 mi. from center distribution; no purification.
Gravity distribution.
Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 30, opening Rensselaer; av. daily cons. 100,000 gal.; serv. con. 420; ord. pres. 105 to 115 lb.
Rates: flat, $6 year, bath $2, closet $3.

WHITE RIVER JUNCTION, 2,300.

HARTFORD WATER COMPANY.

Pres., Chas. P. Chase..... Hanover, N. H.
V. Pres.,
Thos. W. Streeter..... Boston, Mass.
Sec., Gen. Mgr. & Pur. Agt.,
Frank Collins..... White River Junction
Treas., Robert W. Sanford .. Boston, Mass.

Impounding reservoirs, 3-32,000,000 gal.; 2.5 mi. from center distribution; mech. filters, 70,000 gal. Loomis; chemical, sulphate of alumina.

Boiler, vert. tubular 50-hp. 85 lb. Dillon 1914; pumps, 1-80,000 gal. hor. simple duplex Platt 1914, 1-80,000 gal. hor. simple duplex Warren 1914; gravity distribution from reservoir.

Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 59, hose con. 2½-in. Chapman; valves, 51 r. h. opening Chapman; meters, 14 National; av. daily cons. 150,000 gal.; serv. con. 520; ord. pres. 50 to 140 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $3; meter, min. charge $2 quarter, 20c. 1000 gal. max., 8c. min.

WILMINGTON, 430.

MUNICIPAL.

Comr., G. T. Page..... Wilmington
Vil. Clerk, J. H. Kidder..... "

Springs: 4 mi. from center distribution. Gravity distribution.

Hyd. 13, hose con. 3-in. Ludlow; valves, 5 l. h. opening; serv. con. 105; ord. pres. 95 lb.

Rates: flat, $6 year, bath $3, closet $3.

WINDSOR, 1,906.

MUNICIPAL.

Chmn. Comrs., G. D. Clough..... Windsor
Comr. & Supt., C. S. Sherman..... "
" G. O. Gridley..... "
" Harry B. Harris..... "
" Edward Anderson..... "

Springs & wells, 6-ft. in diam. 8-ft. deep; ¼ mi. from center distribution; reservoir, 65,000 gal.; no purification.

Boilers, 2 hor. 75-hp. Cunningham; hand stoking; pumps, 1-1,132,000 gal. L-D-G., 1-576,000 gal. Deane belted to elec. motor, 30-hp. 220 v. 3 ph. 60 cys. Westg.; pumping direct & to standpipe (1893) 240,000 gal. iron.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 51, hose con. 2½-in. Ludlow; valves, 34 l. h. opening; meters, 20 National & Neptune; av. daily cons. 240,000 gal.; serv. con. 500; ord. pres. 90 lb., fire pres. same.

Rates: flat, $6.50 year, bath $2, closet $3; meter 15c. 1000 gal.

WINOOSKI, 4,520.

MUNICIPAL.

Comr., J. G. Strabault..... Winooski
Comr., F. Bigwood..... "
" Nelson Provost..... "
Sec., C. G. Allard..... "
Supt. & Engr. P'g. Sta.,
John Flint..... "
Chemist, Vermont Laboratory... "

Springs and wells, 4 artesian 8-in. 374 to 500-ft. deep; 1.5 mi. from center of business section; reservoir, 2-16,000,000 gal.; no purification.

Air compressors, 2 Ingersoll-Sargent 1907 driven by elec. motors, 20 & 35-hp., 220 v. G. E. 1907 and 1908; elec. energy from Burlington Light & Power Co.; pumping to reservoir.

Pipes, 14 mi. 2 to 10-in. c. & galv. i.; hyd. 38; hose con. 2½-in.; valves, 55 l. h. opening Chapman; meters, 515 various; serv. con. 700; ord. pres. 25 to 95 lb., fire pres. 45 to 110 lb.

Rates: flat, $6 year, bath $4, closet $4.

WOODSTOCK, 2,545.

WOODSTOCK ACQUEDUCT CO.

Supt., Fred W. Wilder..... Woodstock

VIRGINIA

ABINGDON, 1,752.
ABINGDON WATER & LIGHT CO.
Pres., P. F. Palmer.....Saltville
Sec. & Mgr., T. H. Hines.....Abingdon
Engr., M. S. Miles..... "
Boiler, 250-hp. Erie; steam engine, 175-hp. Russell.

ALEXANDRIA, 15,329.
ALEXANDRIA WATER CO.
Supt., Chas. Bowers.....Alexandria

BEDFORD CITY, 2,508.
MUNICIPAL.
City Clerk, P. A. Moore.....Bedford City

BERKELEY, 4,988.
SUPPLIED BY THE PORTSMOUTH, BERKELEY & SUFFOLK WATER CO. See Portsmouth.

BLACKSTONE, 1,486.
ICE, WATER & LIGHT CO.
Pres., P. A. Overley.....Blackstone
Sec. & Treas., Denham Morris.. "
Supt., J. A. Dunlap..... "
Engr. P'g. Sta., W. C. Brough.. "
Boiler, 200-hp. Erie; steam engines, 200-hp. Ball.

BRISTOL, 6,247.
SUPPLIED BY THE BRISTOL-GOODSON WATER CO. See Bristol, Tenn.

BUCHANAN, 792.
BUCHANAN WATERWORKS CO.
Pres., Platt N. Paine.....Buchanan
V. Pres., J. C. Dill..... "
Sec. & Treas., B. M. Paine..... "
Supt., F. W. Munson..... "
Springs; one mi. from center distribution.
Boilers, 20-hp.; hand stoking; pumps, 2; pumping direct & to reservoir.
Pipe, 3 mi. 4 to 12-in. c. & w. i.; hyd. 12, hose con. 2½-in.; meters, none; serv. con. 175; ord. pres. 80 lb., fire pres. same.
Rates: flat, $6 year.

CAPE CHARLES, 1,948.
MUNICIPAL.
Mayor, T. J. Burbage.....Cape Charles
Chmn. Comrs. & Des. Engr.,
C. K. High..... "
Sec., J. W. Jones..... "
Supt. & Engr. P'g. Sta.,
T. M. Ward..... "
Wells, 30 tubular 3-in. 40-ft. deep; ½ mi. from center distribution.
Pump driven by gasoline engine, 2 8-hp. Otto 1895; pumping to elev. tank (1895, 1912) 50,000 gal. ea. wood & steel.
Pipe, 3 mi. 4 & 6-in. steel; hyd. 40, hose con. 2½-in.; valves, 25 r. h. opening; av. daily cons. 120,000 gal.; serv. con. 540; ord. pres. 35 lb., fire pres. 38 lb.

CHARLOTTESVILLE, 6,765.
MUNICIPAL.
Supt., C. D. Carter.....Charlottesville
Springs & impounding reservoirs, 2-691,-000 gal.; 4.5 mi. from center distribution; no purification.
Gravity distribution from standpipe (1903) w. i.
Pipe, 17.8 mi. 4 to 30-in. c. i.; hyd. 89, hose con. 2½-in. Glamorgan & Rensselaer; valves, 102 l. h. thd. Chapman & Glamorgan; meters, 824 various; av. daily cons. 1,500,000 gal.; serv. con. 17,659; ord. pres. 35 to 75 lb., fire pres. same.
Rates: meter, 20c. 1000 gal. max., 10c. min.

CHRISTIANBURG, 1,568.
MUNICIPAL.
Chmn. Comrs., J. W. Pepper, Christianburg
Treas., Morris C. Miller..... "
Spring; 2 mi. from center distribution.
Pumps driven by gasoline engine, 20-hp. F. M.; pumping to reservoir, 1,000,000 gal.
Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 3-in. Rensselaer; meters, 125 Gamon; av. daily cons. 100,000 gal.; serv. con. 125; ord. pres. 20 to 75 lb., fire pres. same.
Rates: meter, 25c. 1000 gal.

CREWE, 1,802.
CREWE WATERWORKS. (Privately owned.)
Gen. Mgr. & Pur. Agt., T. B. Oliver..Crewe
Springs; ¾ mi. from center distribution; reservoir, 105,000.
Boilers, 2 vert. 35-hp. ea. 90 lb. F. M. 1895; hand stoking; pumps, 2-360,000 gal. hor. simple d. act. Gordon 1905; pumping to elev. tank (1905) 50,000 gal.
Pipe, 6 mi. 4 & 6-in. c. i.; hyd. 18; valves, 40 r. h. opening; meters, 32 Worth. & Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 250; ord. pres. 35 to 39 lb.
Rates; meter, 25c. 1000 gal. max., 15c. min.

DANVILLE, 19,020.
MUNICIPAL.
Supt. & Treas., Frank Talbot.....Danville
Engr. P'g. Sta., S. P. Smith..... "
Dan River; one mi. from center distribution; settling basin, 500,000 gal.; mech. filters, 2,000,000 gal.; chemicals, sulphate of alumina.
Boilers, 2 return tubular 125-hp. Keeler; hand stoking; pumps, 2-4,000,000 gal. Snow & worth; pumping to reservoir, 600,000 gal.
Hyd. 250, hose con. 2½-in. Ludlow; valves, mostly Ludlow; meters, 3500 various; av. daily cons. 1,000,000 gal.; serv. con. 3500; ord. pres. 20 to 100 lb., fire pres. same.
Rates: meter, 7½c. 1000 gal.

ELKTON, 873.

ELKTON LIGHT & WATER CO.

Pres., Walter H. Miller.....Elkton
Sec., Treas. & Pur. Agt.,
Vernon C. Miller..... "

Springs; no purification; gravity distribution.

Pipe, 5 mi. ½ to 8-in. c. i.; ord. pres. 50 lb.

Rates: flat, $2.25 quarter, bath 75c., closet 75c.

EMPORIA, 2,018.

MUNICIPAL.

Chmn. Comrs., J. D. Publes.....Emporia
Comr., W. W. Robertson..... "
" W. S. Lindsay..... "
Supt., R. F. Whitaker..... "

Meherron River; one mi. from center distribution; settling basin, 30,000 gal. mech. filters, 600,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, 2-1,250,000 gal. Rumsey driven by gasoline engines, 50-hp. Otto & elec. motor, 40 kw. 220 v. 3 ph. 60 cys. Westg.; pumping to elev. tank, 2-85,000 gal. steel & wood.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 62, hose con. 2½-in. Glamorgan; valves, 20 r. & l. h. thd. Glamorgan; meters, 18 Hersey, Neptune & Union; av. daily cons. 300,000 gal.; serv. con. 250; ord. pres. 40 to 60 lb., fire pres. same.

Rates: flat, min. $5 year; meter, 20c. 1000 gal. max., 5½c. min.

FARMVILLE, 2,971.

MUNICIPAL.

Gen. Mgr., H. A. Stecker.....Farmville
Chmn. Comrs., R. B. Cralle..... "
Comr., R. J. Martin..... "
" J. A. Davidson..... "
Vil. Clerk, W. E. Moore..... "
Supt., B. L. Dugger..... "

Buffalo River; one mi. from center distribution; settling basin, 80,000 gal.; coagulating basin, 60,000 gal.; slow sand filter, 50,000 gal.; chemical, hypochlorite of lime & sulphate of alumina.

Boilers, 2 return tubular 35-hp. ea. 80 lb. Stillwell; hand stoking; pumps, 2-500,000 gal. ea. hor. comp. duplex d. act Platt 1894, 1-750,000 gal. hor. simple duplex d. con. McGowan 1913; pumping to standpipe (1894) 200,000 gal.

Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 45, hose con. 2½-in.; valves, 75; meters, 40 Bourbon & Lynchburg; av. daily cons. 330,000 gal.; serv. con. 375; ord. pres. 40 to 80 lb., fire pres. 25 to 100 lb.

Rates: flat, $3 quarter, bath $1, closet 75c.; meter, 30c. 1000 gal. max., 6.6c. min.

FREDERICKSBURG, 5,847.

FREDERICKSBURG AQUEDUCT COMPANY.

Supt., S. B. Quinn.....Fredericksburg

FRONT ROYAL, 1,133.

MUNICIPAL.

Chmn. Comrs., W. W. Pettitt, Front Royal
City Recorder, W. J. Kendrick, Front Royal
Supt. & Engr. P'g. Sta.,
W. H. Striker..... " "
Cons. Engr.,
E. V. Dunstan.....Washington, D. C.

Mountain springs; 3.5 mi. from center distribution; settling basin, 40 x 30 x 14 ft.; mech. filters, 1,000,000 gal.; chemical, hypochlorite of lime.

Gravity distribution from reservoir, 600,000 gal.

Pipe, 7 mi. 4 & 8-in. c. i.; hyd. 26, hose con. 2½-in. Mellert; meters, 2; av. daily cons. 400,000 gal.; serv. con. 400; ord. pres. 80 lb., fire pres. same.

Rates: flat, $6 year.

GOSHEN, 165.

PRIVATELY OWNED BY G. H. GUINN & MRS. J. F. GUINN.

Mgr., G. H. Guinn.....Goshen

Mountain springs; one mi. from center distribution; no purification.

Gravity distribution from reservoir, 5,000 gal.

Av. daily cons. 12,000 gal.; serv. con. 30; ord. pres. 140 lb., fire pres. same.

Rates: flat, $1 mo.

GRAHAM, 1,917.

MUNICIPAL.

Chmn. Comrs., I. A. Anderson.....Graham
Comr., W. S. Baugh..... "
" W. J. Fink..... "
Supt., R. E. Metcalfe..... "
Engr. P'g. Sta., Z. H. Neff..... "

Wrights Valley Creek; 2.25 mi. from center distribution.

Pump, 1-288,000 gal. Goulds d. con. to elec. motor, Westg.; elec. energy from Appalachian Power Co. of Bluefield, W. Va.; pumping to elev. tank (1903) 125,000 gal. iron.

Pipe, 6-in. c. i.; hyd. 42, hose con. 2-in. Glamorgan; valves, 8 r. h. thd. Glamorgan; meter, one Neptune; av. daily cons. 100,000 gal.; serv. con. 1500; ord. pres. 90 to 120 lb. fire pres. same.

Rates: flat, 75c. mo., bath $1.25, closet $1.25; meter, 15c. 1000 gal.

HAMPTON, 5,505.

SUPPLIED BY THE NEWPORT NEWS LIGHT & WATER CO. See Newport News.

HARRISONBURG, 4,879.

MUNICIPAL.

Mayor, John H. Downing....Harrisonburg
Supt., J. F. Nall..... "

Springs & reservoir, 6,000,000 gal.; 14 mi. from center business section; no purification; gravity distribution.

Pipe, 24 mi. 3 to 10-in. c. i.; hyd. 98. hose con. 2½-in. R. D. W.; valves, 132 r. h, thd. Glamorgan; meters, 110 Worth. National & Pittsburgh; av. daily cons, 800,000 gal. 80%; serv. con. 1400; ord. pres. 65 to 75 lb., fire pres. same.

Rates: flat, $3 year, bath $3, closet $2;

LEXINGTON, 2,931.
MUNICIPAL.
Chmn. Comrs., Charles Pole.....Lexington
City Clerk, J. P. Wade..... "
Supt., T. P. Wills..... "
Engr. P'g. Sta., J. W. Moore.... "
Impounding reservoir on mountain stream, 21,000,000 gal.; 11 mi. from center distribution.
Gravity distribution from reservoir.
Meters, 375; av. daily cons. 139,000 gal.; serv. con. 237; ord. pres. 20 to 75 lb., fire pres. same.
Rates: flat, $1.50 quarter; meter, 25c. 1000 gal. max., 12½c. min.

LURAY, 1,218.
MUNICIPAL.
Comr., J. A. Hanner.....Luray

LYNCHBURG, 29,494.
MUNICIPAL.
Supt., W. C. Randolph, Jr.....Lynchburg
Des. Engr., H. L. Shaver..... "
Chemist, Dr. M. G. Perror..... "
Pedlar River; impounding reservoir, 500,000,000 gal.; chemical, liquid chlorine; gravity distribution from reservoir, 8,000,000 gal.
Pipe, 97 mi. 4 to 30-in. c. i. & wood; hyd. 492 R. D. W. & Glamorgan; meters, 525 National, Pittsburgh & Neptune; serv. con. 6000; ord. pres. 15 to 100 lb., fire pres. 15 to 125 lb.
Rates; flat, $6 year, bath $3, closet $3; meter, min. charge 50c. mo. 2500 gal., 17c. 1000 gal. max., 3c. min.

MANASSAS, 1,217.
MUNICIPAL.
Chmn. Comrs., Wm. M. Wheeler, Manassas
Comr., Albert Speden..... "
" D. H. Prescott..... "
Supt., Geo. L. Rosenberger..... "
Well, 8-in. 520-ft. deep; ¼ mi. from center distribution; reservoir, 1000 gal.
Boilers, 2 hor. 125-hp. ea.; hand stoking; pumps, 2-172,800 gal. elec. motors, 3 ph. 60 cys. Ridgeway: pumping to elev. tanks (1914) 80,000 gal. steel.
Pipe, 4 to 8-in. c. i.; hyd. 50, hose con. 2½-in. Darling; meters, 80; serv. con. 85
Rates: meter, min. charge 50c. mo. 2000 gal., 10c. 1000 gal.

MARION, 2,727.
MUNICIPAL.
Chmn. Comrs., W. E. Francis.....Marion
Comr., Walter E. Johnston..... "
Springs & impounding reservoir, 2,500,000 gal.
Gravity distribution from reservoir, 50,000 gal.
Pipe, 8 mi. 2 to 12-in. c. & w. i.; hyd. 40, hose con. 2½-in. Florence; valves, 10 r. h. opening Eddy; serv. con. 450; ord. pres. 30 to 90 lb.
Rates: flat, $5 year, bath $1.50, closet $1.50.

MARTINSVILLE, 3,468.
MUNICIPAL.
Supt. & City Engr.,
J. R. Gregory.....Martinsville
Engr. P'g. Sta., John Self..... "
Chemist,
State Health Department.....Richmond
Jones Creek & wells, 14; 1.25 mi. from center distribution; mech. filters, 20,000 gal. Roberts; chemical, sulphate of alumina.
Boiler, 50-p.. York; pumps, 2-384,000 gal. comp. Platt, 2-480,000 gal. Worth. d. con. to elec. motors, two 50 & 100-hp. 230 v. 3 ph. 60 cys. G. E.; pumping to standpipe (1894) 186,000 gal.
Pipe, 8 mi. 4 & 6-in.; hyd. 56, hose con. 2½-in. Eddy; meters, 300 Pittsburgh; av daily cons. 100,000 gal. 50%; serv. con. 600; ord. pres. 60 to 90 lb., fire pres. same.
Rates: flat, $6 year, bath $3, closet $5; meter, 15c. 1000 gal. max., 10c. min.

NEWPORT NEWS, 20,205.
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V. Pres. & Treas.,
I. E. Gates.....New York, N. Y.
Sec., G. E. Miles..... " " "
Supt., L. B. Manzille.....Newport News

NORFOLK, 67,452.
NORFOLK COUNTY WATER COMPANY.
Supplies Norfolk & Princess Anne Counties. (Controlled by American Pipe and Construction Co., 112 No. Broad St., Phila., Pa.) Office, 25th & Church Sts., Norfolk.
Pres., Joseph S. Keen, Jr.....Philadelphia
V. Pres. & Treas.,
Geo. M. Bunting..... "
Asst. Treas. & Sec.,
H. Bayard Hodge..... "
Asst. Sec., W. H. Roth..... "
Gen. Supt., H. P. Keen..... "
Supt., Chas. H. Bliven..... "
Wells, 8 surface open; mech. filters.
Boilers, two 50-hp. ea. & one 75-hp.; pumps, 1-2,500,000 gal. F. M., 1-2,000,000 gal. Epping-Carpenter, 1-1,000,000 gal. Philadelphia; pumping to reservoir, 440,000 gal. & standpipe, 2-456,000 gal.
Pipe, 88.7 mi. 4 to 24-in.; hyd. 88; valves, 817; meters, 731;. av. daily cons. 2,000,000 gal.; serv. con. 4227; ord. pres. 20 to 60 lb.

PETERSBURG, 24,127.
MUNICIPAL.
Supt., R. D. Budd.....Petersburg
Asst. Supt., Theo. Glazer..... "
Clerk, P. G. Bunting..... "
Appomattox River; 2.5 mi. from center distribution; settling basins, 3-15,000,000 gal.; mech. filters, 3,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.
Boilers, 2 tubular 100-hp.; hand stoking; pumps, 2-2,000,000 gal. Worth. & Knowles;

elec. motor, 130-hp. & 235-hp. 3 ph. 60 cys. G. E.; pumping to reservoir, 3,500,000 gal. & elev. tank, 60,000 gal. steel.

Pipe, 45 mi. 4 to 30-in. c. i.; hyd. 475, hose con. 2½ & 4 in. R. D. W.; valves, r. h. thd.; meters, 5700 Worth., National, Neptune & Hersey; av. daily cons. 3,000,000 gal.; serv. con. 5700; ord. pres. 20 to 70 lb.

Rates: all meter, 20c. 1000 gal. max., 7c. min.

PORTSMOUTH, 33,190.

PORTSMOUTH, BERKLEY & SUFFOLK WATER CO. Owns entire capital stock of Portsmouth Suburban Water Co. Supplies City of Portsmouth, Berkley Ward of City of Norfolk, Washington Branch District of Norfolk Co., Western Branch District of Norfolk Co. & City of Suffolk, Va. (Controlled by American Waterworks & Electric Company, 50 Broad St., New York, N. Y.)

Pres., G. E. Hoffmaster.....New York
V. Pres., W. L. Davis..... " "
Sec., F. R. Berry..... " "
Treas., B. C. Hovis..... " "
Supt., W. L. Davis..... " "

Lake Kilby & Lake Cahoon; 20 mi. from Portsmouth; settling basin, 1,000,000 gal.; mech. filters, 6,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & lime.

Boilers, 2 water-tube 176-hp. Sterling, one water-tube 250-hp. Sterling, 2 return tubular 50-hp. Hampson, one return tubular 125-hp. Hanson, 2 water-tube 150-hp. Sterling, 2 return tubular 50-hp. Sterns; pumps, 1-3,000,000 gal. centrifugal Worth, driven by elec. motor, 75-hp. G. E., 2-5,000,000 gal. centrifugal R. D. W., 2-6,000,000 gal. hor. Prescott, 1-5,000,000 gal. hor. Snow, 1-3,000,000 gal. centrifugal Lawrence, 1-1,000,000 gal. turbine driven Holly, 1-500,000 gal. turbine driven Holly, 1-2,000,000 gal. hor. Knowles, 1-1,000,000 gal. hor. L. D. G., 1-5,000,000 gal. hor. Worth., 1-2,500,000 gal. Jeanesville, 1-6,000,000 gal. Jeanesville, 1-500,000 gal. hor. Davidson, 1-1,000,000 gal. hor. L. D. G.; elec. energy generated by elec. generators, 100 kva. 2300 v. Ft. Wayne driven by steam, 118-hp. tandum comp. Harrisburg; pumping direct, to reservoir, 99 ft. in diam. 13 ft. deep & to standpipes, 3 steel.

Pipe, 99 mi. 4 to 30-in. c. i.; hyd. 359; meter, 978 various; av. daily cons. 4,500,000 gal.; serv. con. 11,000; ord. pres. 35 to 40 lb.

PULASKI, 4,807.

MUNICIPAL.

Chmn. Comrs., W. H. Tralinger....Pulaski
Comr., W. W. Chassin..... "
" R. L. Beamer..... "
" F. A. Seagle..... "
Supt., John T. Jackson..... "

Impounding reservoir, 95,000,000 gal.; 3 mi. from center business section; on purification; gravity distribution.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 65, hose con. 2½-in. R. D. W. & Rensselaer; valves, 35 r. h. opening; meters, 4 National; av. daily cons. 300,000 gal.; serv. con. 600; ord. pres. 20 to 120 lb., fire pres. same.

Rates: flat, $2.50 quarter, bath 80c., closet 80c.; meter, min. charge $10 year, 10c. 1000 gal. max., 5c. min.

RICHLANDS, 743.

WATER, ELECTRIC LIGHT & POWER CO.

Mgr., A. E. Clark.....Richlands
Supt., J. T. Elkins..... "

Boiler, 250-hp. Sterling; steam engine, 100-hp. Fitch.

RICHMOND, 127,628.

MUNICIPAL.

Supt., E. E. Davis.....Richmond
Asst. Supt., Wm. Lawton..... "
Ch. Clerk, H. E. Dickerson..... "
Engr. P'g. Sta., J. E. Heinde.... "
Supt. Filtration, F. O. Baldwin.. "

James River; 1.5 mi. from center distribution; settling basins, 4-220,000,000 gal.; chemicals, liquid chlorine.

Pumps, 9-12,000,000 gal. Rumsey, De Laval, Jeanesville & Worth.; elec. motors, 200-hp.; elec. energy from municipal plant; pumping to reservoirs, 2-56,000,000 gal. & elev. tank (1905) 150,000 gal. steel.

Pipe, 163.7 mi. 4 to 36-in. c. i.; hyd. 1300; hose con. 2½-in. various; valves, 3000 r. h. thd. various; meters, 20,000 various; av. daily cons. 15,000,000 gal.; serv. con. 26,000; ord. pres. 12 to 84 lb., fire pres. same.

SALEM, 3,849.

BAPTIST ORPHANAGE.

Pres., F. H. Martin.....Suffolk
V. Pres., G. W. Beale Hague..... "
Sec., Thos. R. Preston.....Salem
Treas., W. R. Whitesbarger..... "
Supt. & Pur. Agt., C. L. Corbitt.... "

Springs & creek; 2 mi. from center business section; charcoal filters; gravity distribution from standpipe (1914) 160,000 gal. concrete.

Pipe, 2 mi. 3 & 8-in. c. i.; hyd. 6, hose con. 2½-in.; valves, 8 l. h. opening; av. daily cons. 20,000 gal.; serv. con. 34; ord. pres. 41 to 50 lb.

SHENANDOAH, 1,431.

MUNICIPAL.

Supt., J. A. Boonton.....Shenandoah
City Clerk, H. C. Bickers..... "

Shenandoah River; ½ mi. from center distribution; no purification.

Boilers, 2 fire-tube 80-hp. ea. 95 lb. Ft. Wayne 1906; pumps, 2 8½ x 12 hor. duplex d. act. F. M. 1906; steam engines, 100-hp. Ft. Wayne 1906; elec. generators, 70 kva. Ft. Wayne; pumping direct.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 25, hose con. 2-in.; meters, 25; av. daily cons. 200,000 gal.; serv. con. 300; ord. pres. 90 lb., fire pres. same.

Rates: flat, $6 year, bath $3, closet $3; meter, min. charge 50c. mo., 5000 gal., 10c. 1000 gal.

SMITHFIELD, 1,278.

THE SMITHFIELD WATER CO.

Pres., A. L. Barrett.....Smithfield
V. Pres., Gen. Mgr. & Pur. Agt., B. P. Gay..... "
Sec. & Treas., J. M. Chapman... "
Engr. P'g. Sta., C. R. Cruwper.. "
Chemists, Froeling & Robertson. Richmond

Artesian well, 3-in. 385-ft. deep; 2 mi. from center distribution; reservoir, 20,000 gal.; settling basins, 200,000 gal.; chemicals, none.

Boiler, 35-hp. 100 lb. York 1905; hand stoking; pumps, 1-350,000 gal. hor. comp. d. act. Goulds 1904, 1-250,000 gal. vert. triplex Goulds 1903 belted to water wheel, 25-hp. overshot; pumping to elev. tank (1904) 55,000 gal. iron, Tippett & Wood.

Pipe, 2 mi. 6-in. c. i.; hyd. 45, hose con. 2½-in. Kennedy; valves, 15 r. & l. h. opening Kennedy; meters, 15 National; av. daily cons. 90,000 gal. 50%; serv. con. 200; ord. pres. 45 to 65 lb., fire pres. 50 to 75 lb.

Rates: flat, $2.25 quarter, bath 37½c., closet 37½c.; meter, min. charge $5 quarter 25,000 gal., 15c. 1000 gal.

SOUTH BOSTON, 3,516.

MUNICIPAL.

Mayor, A. M. Baughn.....South Boston

STAUNTON, 10,684.

MUNICIPAL.

Supt., J. B. Moore.....Staunton

STRASBURG, 762.

MUNICIPAL.

Supt. & Collector, J. B. Guich....Strasburg
Vil. Clerk, A. C. Mackin..... "

Springs & reservoirs, 1,000,000 gal.; no purification.

Gravity distribution from reservoir, above.

Pipe, 5 mi. 6-in. c. i.; hyd. 10, hose con. 2-in.; valves, r. h. thd. Glamorgan; meters, 4; serv. con. 240; ord. pres. 160 lb.

Rates: flat, $4 year, bath $3, closet $3; meter, 10c. 1000 gal.

SUFFOLK, 7,008.

SUPPLIED BY THE PORTSMOUTH, BERKELEY & SUFFOLK WATER CO. See Portsmouth.

THOEBUS, 2,394.

SUPPLIED BY THE NEWPORT NEWS LIGHT & WATER CO. See Newport News.

WAYNESBORO, 1,389.

MUNICIPAL.

Mayor, W. W. Glass.....Waynesboro
Chmn. Comrs., C. S. Gow..... "

WINCHESTER, 5,864.

MUNICIPAL.

Comr., Wm. Bell.....Winchester
" J. W. Sibert..... "
" R. L. Gray..... "
Supt., Thos. J. Trier..... "

Springs; ½ mi. from center distribution.

Boilers, 3 200-hp.; hand stoking; pumps, 3-2,600,000 gal. 2 steam & one driven by elec. motor; elec. energy from Northern Virginia Power Co.; pumping direct & to standpipe (1894) 250,000 gal. brick & concrete.

Pipe, 21 mi. 4 to 12-in. c. i.; hyd. 130, hose con. 2½-in.; valves, 80 r. & l. h. thd.; meters, 14 various; av. daily cons. 1,000,000 gal.; serv. con. 1850; ord. pres. 55 lb., fire pres. same.

Rates: meter, 10c. 1000 gal.

WORRENTON, 1,427.

MUNICIPAL.

Chmn. Comrs., H. I. Hutton....Worrenton
Comr., A. O. Hodgkins..... "
" R. E. Menefee..... "
Recorder, W. H. Robertson..... "

Springs & wells, 6-in. 348 ft. deep; ½ mi. from center business section; reservoirs, 2-3.750,000 gal.; no purification; pumps, driven by elec. motors, 1913; elec. energy from Worrenton Elec. Light & Power Co.; pumping to reservoirs, above.

Pipe, 8 mi. 8-in. c. i.; hyd. 32, hose con. 3-in.; meters, 300 Pittsburgh & National; ord. pres. 70 to 85 lb., fire pres. same.

Rates: flat, $2.50 quarter; meter, min. charge $2.50 quarter 6000 gal., 35c. 1000 gal.

WASHINGTON

ABERDEEN, 13,660.
MUNICIPAL.
Chmn. Comrs., J. H. Empey.....Aberdeen
Supt., E. A. Lindstrom..... "
Engr. P'g. Sta., G. W. Bowen.... "
Creeks; 1.5 mi. from center distribution; chemical, copper sulphate.
Boilers, 3 235-hp.; hand stoking; pumps, 3-5,000,000 gal.; pumping direct.
Hyd. 176, hose con. 4 & 5-in. Rensselaer; valves, r. h. thd. Crane; meters, 425 National, Neptune & Hersey; av. daily cons. 1,500,000 gal.; serv. con. 2816; ord. pres. 30 to 75 lb., fire pres. 55 to 100 lb.
Rates: meter, min. charge $1 mo. 500 cu. ft., 17½c. 100 cu. ft. max., 5c. min.

ANACORTES, 4,168.
ANACORTES LIGHT & WATER CO.
Pres. & Mgr., Douglas Allmond..Anacortes
V. Pres., J. W. Fleet..... "
Sec. & Treas., E. P. Barker..... "
Boiler, 360-hp. Sumner; steam turbine, 625-hp. G. E.

ARLINGTON, 1,476.
JIM CREEK WATER, LIGHT & POWER CO.
Pres., Thos. Moran.....Arlington
Sec. & Treas., Frank Kraushoff... "
Mgr. & Cont. Agt.,
B. T. Robinson, Jr..... "
Engr. P'g. Sta.,
Harry Batchelder..... "
Boiler, 100-hp. Quaker City; water-turbines, 200-hp. Trump; steam engines, 90-hp.

ASOTIN, 820.
MUNICIPAL.
Supt., J. Swain.....Asotin
City Clerk, Chas. A. Laufer..... "
Cons. Engr., T. H. Green.....Spokane
Asotin Creek; 9 mi. from center business section; reservoir, 350,000 gal.; gravity distribution.
Pipe, 7 mi. 4 to 10-in. c. i. & wood; hyd. 26, hose con. 2½-in. Rensselaer; valves, 27 r. h. opening; meters, 250 Neptune; av. daily cons. 600,000 gal.; serv. con. 260; ord. pres. 60 to 90 lb., fire pres. 90 lb.
Rates: meter, min. charge $1.50 mo. 800 cu. ft., 3c. 100 cu. ft. max., $1.25 min.

BOTHELL, 599.
SPRING HILL WATERWORKS. (Privately owned.)
Pres. & Gen. Mgr., Arthur Pearson..Bothell
Springs; no purification; gravity distribution from reservoir, 300,000 gal.
Pipe, 3 mi. ¾ to 4-in. galv. i; hyd. 2, hose con. 2½-in.; valves, 12 r. h. opening; meters, 60 Neptune; av. daily cons. 9000 gal.; serv. con. 100; ord. pres. 5 to 52 lb., fire pres. same.
Rates: flat, $1 mo.; meter, min. charge 50c. mo. 100 cu. ft., 50c. 100 cu. ft. max., 15c. min.

BREMERTON, 2,993.
GARRISON FISHER WATER CO. Managed by the Pacific Coast Pipe Co. Office, Dallard.

BRIDGEPORT, 431.
BRIDGEPORT DEVELOPMENT CO. Office, 503 Fairview Ave., Spokane.
Pres., E. Johnson.....Spokane

BUCKLEY, 1,272.
MUNICIPAL.
City Clerk, D. W. Osbourne.....Buckley

CASHMERE, 625.
MUNICIPAL.
Mayor, John L. Johnson.....Cashmere
Comr., L. H. Andrews..... "
Supt., O. M. Carter..... "
Well, 20 ft. in diam. 40 ft. deep; ½ mi. from center business section.
Pumps, 1-500,000 gal. vert. centrifugal B. J. 1914 d. con. to elec. motor, 40-hp. 2200 v. 3 ph. 60 cys. F. M. 1914, 1-500,000 gal. hor. centrifugal De Laval 1900 d. con. to elec. motor, 40-hp. 2200 v. 3 ph. 60 cys. Westg. 1908; pumping to reservoir, 250-,000 gal.
Pipe, 4 mi. 4 to 6-in. wood; hyd. 20, hose con. 2½-in. Rensselaer; valves, 18 l. h. opening Crane; meters, 200 Pittsburgh; av. daily cons. 190,000 gal. 70%; serv. con. 226; ord. pres. 45 to 110 lb., fire pres. same.
Rates: all meter, min. charge $1 mo. 6000 gal., 15c. 1000 gal. max., 4.5c. min.

CENTRALIA, 7,311.
MUNICIPAL.
Mgr. & City Engr.,
Stanley Macomber.....Centralia
Cons. Engr., J. L. Stannard..Portland, Ore
Supt., W. V. Lake.....Centralia
Impounding reservoir on Newaukum River, 5,000,000 gal.; 13 mi. from center distribution; chemical, hypochlorite of lime.
Gravity distribution from reservoir.
Pipe, 16 mi. 4 to 12-in. steel & wood; hyd. 87, hose con. 2½-in. Rensselaer & Iowa; meters, 175 Neptune; av. daily cons. 1,125,000 gal.; serv. con. 1420; ord. pres. 96 lb., fire pres. same.

CHEHALIS, 4,507.
MUNICIPAL.
Mayor, J. T. Coleman.....Chehalis
Comr., Edward Deggelles..... "
" D. W. Boone..... "
Supt., F. G. Whaley..... "
Cons. Engr., G. N. Miller,
800 E. Denny Way, Seattle
Neuwaukum River; 17 mi. from center business section; reservoir, 2-1,500,000 gal.;

settling basin, 5,500,000 gal.; no purification; gravity distribution.

Pipe, 32 mi. 4 to 20-in. wood; hyd. 96, hose con. 2½-in. Rensselaer; valves, 250 r. h. opening Crane; meters, 80 Pittsburgh & Neptune; serv. con. 1050; ord. pres. 50 to 102 lb., fire pres. same.

Rates: flat, $1 mo., bath 25c., closet 50c.; meter, min. charge $1 mo. 3333 gal., 22.5c. 100 cu. ft. max., 5c. min.

CHELAN, 682.

CHELAN ELECTRIC CO.

Pres., R. Budd.....St. Paul, Minn.
Sec. & Treas.,
L. E. Katzenbach..... " " "
Gen. Mgr., L. V. Harper... " " "
Pur. Agt., C. L. Bankson.....Seattle

Chelan River; ½ mi. from center business section.

Pumps, 1-1,200,000 gal. hor. duplex belted to water-turbines, 135-hp. Leffel 1914, 1-1,296,000 gal. hor. centrifugal belted to water-turbine, 135-hp. Leffel 1907; pumping to reservoirs, 3-1,050,000 gal.

Pipe, 16 mi. ¾ to 14-in. galv. i. & wood; hyd. 28, hose con. 2½-in.; valves, 20 r. h. opening Crane; meters, 391 Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 421; ord. pres. 35 to 90 lb., fire pres. same.

CHINOOK, 500.

CHINOOK WATERWORKS. (Privately owned.)

Owner, Lars Bergsvik
766 E. Burnside Ave., Portland, Ore.
Supt. & Clerk, Mrs. J. W. Hall....Chinook

Creek; 2.5 mi. from center business section; reservoir, 200,000 gal.; no purification; gravity distribution.

Pipe, 3.5 mi. 2 to 8-in. wood & steel; hyd. 2, hose con. 2½-in. Kupferle; valves, 5 r. h. opening Crane; av. daily cons. 14,000 gal.; serv. con. 69; ord. pres. 59 lb., fire pres. same.

Rates: flat, $1.75 mo., bath 50c., closet 50c.

CONCRETE, 945.

BAKER RIVER POWER, LIGHT & WATER Co.

Pres., John C. Even, 804 Hoge Bldg., Seattle
Sec., S. H. Byrnes.. " " "
Treas., A.A.Sutherland " " "
Pur. Agt., J. E. Dickinson.....Concrete

Springs & reservoirs, 2; one mi. from center business section; gravity distribution.

Pipe, 3 mi. 4 & 6-in. wood; hyd. 12, hose con. 2½-in.; meters, none; serv. con. 219; ord. pres. 80 to 90 lb.

Rates: flat, $1 mo., bath 40c., closet 40c.

EATONVILLE, 754.

MUNICIPAL.

Mayor, C. A. Nettleton.....Eatonville
Comr., C. H. Williams..... "
" Fred Johnson..... "
City Clerk, Chas. C. Biggs..... "

Reservoir in Little Neshell River; 1.5 mi. from center business section; chemical, hypochlorite of lime; gravity distribution.

Pipe, 3 mi. 4 to 10-in. wood; hyd. 33, hose con. 2½-in.; valves, 9 l. h. opening Crane; meters, none; serv. con. 132; ord. pres. 84 lb., fire pres. same.

Rates: flat, $1.25 mo.

ELLENSBURG, 4,209.

ELLENSBURG GAS & WATER CO.

Pres., W. W. Seymour.....Ellensburg

EVERETT, 28,814.

EVERETT RAILWAY, LIGHT & WATER Co. Office, 1606 Hewit Ave. (Leased and operated by Puget Sound International Railway & Power Co. which is controlled by Pacific Northwest Traction Co.)

Pres., Frederick S. Klapp....Boston, Mass.
V. Pres., A. W. Leonard.....Seattle
Sec., Clement R. Ford.....Boston, Mass.
Treas., H. B. Sawyer..... " "
Gen. Mgrs.,
Stone & Webster Mng. Corpn.,
Boston, Mass.
Mgr., Donald C. Barnes.....Everett
Supt. & Engr. P'g. Sta.,
Carl F. Klapp..... "

Springs & reservoirs, 6,000,000 gal.; 10 mi. from center distribution; chemical, hypochlorite of lime.

Pumps, 5-8,000,000 gal. 2 steam & 3 elec. motor-driven; pumping direct & to reservoir, 11,250,000 gal.

Pipe, 84.3 mi. 4 to 20-in. c. i., steel & wood; hyd. 225, hose con. 2½-in. various; meters, 234 various; av. daily cons. 3,130,000 gal.; serv. con. 5607; ord. pres. 60 to 125 lb., fire pres. same.

HILLYARD, 3,276.

MUNICIPAL.

City Engr., B. C. Jacobson.....Hillyard

HOQUIAM, 8,171.

HOQUIAM WATER COMPANY.

Mgr. & Des. Engr.,
Harry C. Heermans.....Hoquiam
Sec., Alfred G. Anderson..... "

Impounding reservoir on mountain streams, 2-10,500,000 gal.; 5 mi. from center distribution; no purification.

Boilers, 2 hor. tubular 125-hp. ea., 2 hor. tubular 80-hp. ea.; hand stoking; pumps 4-4,500,000 gal. L. D. G., Heisler & Worth.; pumping to reservoirs, above.

Pipe, 32 mi. 2 to 12-in. c. i. & wood; hyd., hose con. 2½-in. R. D. W. & Ludlow; valves, l. h. thd. Eddy; meters, 445 National & Pittsburgh; av. daily cons. 2,500,000 gal.; serv. con. 1980; ord. pres. 90 to 105 lb., fire pres. same.

Rates: meter, 40c. 1000 gal. max., 5c. min.

ILWACO, 664.

MUNICIPAL.

Comr., C. E. Kerbe.....Ilwaco
" E. R. Saunders..... "
" J. B. McGowan..... "

City Clerk, K. A. Howerton.....Ilawco
Supt., E. S. Wood..... "
Cons. Engr., A. J. Gibbs.....South Bend
Chemist, Pullman State College..Pullman
Johnson Lake; ¾ mi. from center business section; reservoirs, 2-166,000 gal.; brick filters.

Pumps, 1-432,000 gal. vert. centrifugal Wellington 1913 d. con. to elec. motor, 25 kw. 220 v. 3 ph. 60 cys. G. E. 1913; elec. energy from South Shore Light & Power Co.; pumping to reservoir, above.

Pipe, 3 mi. 4 to 8-in. wood; hyd. 16, hose con. 2½-in. Crane; valves, 14 r. h. opening; av. daily cons. 36,000 gal. 90%; serv. con. 150; ord. pres. 57 to 60 lb., fire pres. same.

Rates: flat, $1.50 mo. including bath & closet.

KENT, 1,908.

MUNICIPAL.

Comr., H. M. Matteson.....Kent
" E. H. Maven..... "
" A. M. Berlin..... "
City Clerk, L. E. Price..... "
Springs & reservoirs, 3-2,000,000 gal.; 10 mi. from center business section; gravity distribution.

Pipe, 14 mi. 2 to 14-in. wood; hyd., hose con. 2½-in. Tovey; valves, 80 l. h. opening; meters, 95 National; av. daily cons. 700,000 gal.; serv. con. 750; ord. pres. 50 to 83 lb., fire pres. same.

Rates: flat, $1 mo., bath 25c., closet 25c.; meter, min. charge $1 mo.

KETTLE FALLS, 377.

MUNICIPAL.

Mayor, J. M. Williams.....Kettle Falls
Vil. Clerk, W. T. Ferguson..... " "
Supt., E. B. Growdan..... " "
Springs; one mi. from center distribution.

Gravity distribution from standpipe, iron.

Hyd. 14, hose con. 3-in.; serv. con. 80.

KIRKLAND, 532.

BURKE & FARRAR, INC.

Pres., E. C. Burke.....Seattle
V. Pres., B. Farrar..... "
Gen. Mgr., W. A. Wester.....Kirkland
Spring & reservoir, 150,000 gal.; 1.5 mi. from center business section.

LEAVENWORTH, 1,551.

Pres. & Treas., J. B. Adams....Leavenworth
Sec., L. R. Hart..... "
Supt., G. A. Burgett..... "
Engr. P'g. Sta., E. Mohler.... "
Water-turbine, 350-hp. Smith.

LIND, 821.

MUNICIPAL.

Supt., J. W. Keyser.....Lind
Town Clerk, Wm. Coddington..... "
Well, 8-in. 300-ft. deep; ¼ mi. from center distribution; reservoir, 318,000 gal.

Boiler, 30-hp. Oil City; hand stoking; pumps, 1-288,000 gal. duplex Bradley; elec. motor, 2200 v. 3 ph. 60 cys.; elec. energy from Washington Water Power Co. of Spokane; pumping direct to reservoir, above.

Pipe, 4.5 mi. 4 to 12-in. c. i.; hyd. 24, hose con. 3-in. Union & Rensselaer; meters, 217 Neptune & Pittsburgh; av. daily cons. 23,000 gal.; serv. con. 220; ord. pres. 75 to 82 lb., fire pres. same.

Rates: flat, $1.25 mo.; meter, min. charge $1.25 mo. 1000 gal., 10c. 1000 gal.

LYLE, 150.

LYLE COMPANY.

Receiver, L. H. Lawson.....Lyle
Springs; gravity distribution; serv. con. 22.

LYNDEN, 1,148.

MUNICIPAL.

Chmn. Comrs., M. P. Bateman....Lynden
Comr., Geo. Scoville..... "
" A. T. Stuart..... "
Supt. & Engr. P'g. Sta.,
W. K. Pixley..... "
Nooksack River & well, 25 ft. in diam. 20 ft. deep; ¾ mi. from center distribution; no purification.

Pumps, 1-125,000 gal. vert. triplex Deane 1912 belted to gas engine, 25-hp. St. Marys 1910; pumping to tank, 50,000 gal. wood.

Pipe, 4 mi. 4 to 6-in. wood; hyd. 84, hose con. 2½-in. Rensselaer; valves, 12 l. h. opening Crane; meter, 60 Pittsburgh; av. daily cons. 65,000 gal.; serv. con. 235; ord. pres. 55 lb., fire pres. same.

Rates: flat, $1 mo., bath 25c.

MARCUS, *1,200.

MARCUS LIGHT & WATER CO.

Pres., H. V. Gates,
373 17th St., Portland, Ore.
Sec., Treas. & Pur. Agt.,
O. B. Gates.....Hillsboro
Supt., J. L. Lightfoot.....Marcus
Columbia River; near center distribution; no purification.

Pumps, 1-144,000 gal. duplex Dow, 1-252,000 gal. triplex Goulds; gasoline engine, 15-hp. Union; elec. motor, 20-hp. 2300 v. 3 ph. 60 cys. G. E.; pumping direct & to reservoir, 250,000 gal.

Pipe, 4.7 mi. 4 to 12-in. w. i.; hyd. 31, hose con. 2½-in. Rensselaer; valves, r. h. thd. Crane; meter, 96 Neptune; serv. con. 169; ord. pres. 75 to 100 lb.

Rates: flat, 50c. mo.; meter, 30c. 1000 gal. max., 12c. min.

MEDICAL LAKE, 1,730.

MUNICIPAL.

Comr., W. E. Connelly.....Medical Lake
" F. H. Kirchhoffer..... " "
" A. J. Walker..... " "
Supt., W. R. Bartholomew... " "
Clerk, A. H. Campbell..... " "
Clear Lake; 2.5 mi. from center distribution.

Water is purchased from the State, who also do the pumping; gravity distribution from reservoir.

Pipe, 4 mi. 4 & 6-in. steel; hyd. 50, hose con. 2½-in.; meters, 110 Neptune, Pittsburgh & Standard.

Rates: flat, $1.25 mo.; meter, min. charge $1.25 1000 gal., 18c. 1000 gal.

METALINE FALLS, *500.

METALINE FALLS LIGHT & WATER CO.
Pres., L. P. Larsen.....Metaline Falls
Sec., Treas. & Mgr.,
Jens Jensen..... " "

Mountain Creek & Sullivan Lake; 4 mi. from center business section; no purification.

Pump driven by gasoline engine, 5-hp. F. M.; pumping for emergency; gravity distribution; elev. tank, 5000 gal. wood.

Pipe, 1.5 mi. 4 to 12-in. wood; hyd. 11, hose con. 2½-in. Crane; valves, 16 Crane; meters, none; serv. con. 50; ord. pres. 60 to 160 lb., fire pres. same.

Rates: flat, $1.50 mo.

MILTON, 448.

MUNICIPAL.
Supt. & Engr. P'g. Sta.,
J. L. Martin.....Milton
Des. Engr., D. H. White..... "

Well, 12-ft. in diam. 20-ft. deep; ½ mi. from center distribution; no purification.

Pumps, 1-500,000 gal. Goulds, 1-1,000,000 gal. Deane belted to elec. motors, 15-hp. 550 v. 2 ph. Allis-C.; elec. energy from Puget Sound Elec. Ry.; pumping to standpipe (1913) concrete.

Pipe, 4.5 mi. 4 to 12-in. wood; hyd. 13, hose con. 2½-in. Crane; valves, 21 r. h. thd. Crane; av. daily cons. 20,000 gal.; serv. con. 90; ord. pres. 110 to 115 lb., fire pres. same.

MONTESANO, 2,488.

NORTHWEST ELEC. & WATER WORKS.
Office, 614 New York Bldg., Seattle, Wash.
Pres. & Treas., Charles E. Shepard..Seattle
Sec., John E. Burkheimer..... "
V. Pres., Gen. Mgr. & Des. Engr.,
Raymond J. Andrus..... "
Engr. P'g. Sta., Silas Wilder....Montesano

Impounding reservoirs on Sylvia Creek, 3-1,500,000 gal.; 5 mi. from center distribution; no purification.

Gravity distribution from reservoir, 1-1,000,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i., steel & wood; hyd. 43, hose con. 2½-in. Rensselaer; meters, 155 Neptune & Pittsburgh; av. daily cons. 500,000 gal.; serv. con. 362; ord. pres. 60 to 85 lb.

Rates: flat, $1.50 mo., bath 25c., closet 25c.; meter, min. charge $1.50 mo. 4,500 gal.

NORTH YAKIMA, 14,082.

PACIFIC POWER & LIGHT COMPANY.
Office, Spaulding Bldg., Portland, Ore.
(Controlled by American Power & Light Co., 71 Broadway, New York.)
Pres., Guy W. Talbot.....Portland, Ore.
Sec. & Asst. Treas.,
Geo. S. Nevins..... " "
Treas., E. B. Summerson, New York, N. Y.
Gen. Mgr.,
James E. Davidson.....Portland
Des. Engr., J. C. Martin..... "
Pur. Agt., B. H. Spill..... "
Loc. Mgr., Geo. C. Sawyer. North Yakima.

Naches River; 22 mi. from center distribution; chemical, hypochlorite of lime.

Gravity distribution.

Pipe, 50 mi. 4 to 12-in. c. i. & wood; hyd. 158, hose con. 2½-in. R. D. W. & Rensselaer; meters, 3250 Pittsburgh, Neptune & National; av. daily cons. 1,250,000 gal.; serv. con. 3300; ord. pres. 70 to 755000 fire pres. 80 to 90 lb.

Rates: meter, min. charge, $1 mo. lb., gal., 20c. 1000 gal. max., 10c. min.

OLYMPIA, 6,996.

WASHINGTON PUBLIC SERVICE CO.
Office, 3rd. & Columbia Sts., & 1014 Wilcox Bldg., Portland, Ore.
Pres., W. B. Foshay.....Portland
Treas. & Mgr., Chas. A. Harmony..Olympia
Supt., J. L. Myers..... "
Engr. P'g. Sta., John Rank..... "

Artesian wells & springs; one mi. from center distribution.

Boilers, 2 fire-tube 160-hp. Frost; oil fuel; pumps, 1-2,500,000 gal. Heisler; elec. motor, 75 kw. 220 v. 3 ph. 60 cys. Westg.; pumping to reservoir, 2,500,000 gal.

Hyd. 100, hose con. 2½-in. R. D. W. & Rensselaer; meter, 600 various; av. daily cons. 800,000 gal.; serv. con. 16,000; ord. pres. 20 to 100 lb., fire pres. same.

Rates: meter, min. charge $1 mo., 26.25c. 100 cu. ft. max., 5c. min.

ORIENT, 350.

ORIENT WATER & ELECTRIC CO.
Pres., Jesse Barnard.....Orient
V. Pres., L. R. Terry..... "
Sec., Treas. & Gen. Mgr.,
O. G. Barnard..... "

Deer Creek & reservoir, 30,000 gal.; 1.7 mi. from center business section; no purification; gravity distribution.

Pipe, 2 mi. 2 to 6-in. c. i. & wood; hyd. 3, hose con. 2½-in.; valves, 6 l. h. opening; av. daily cons. 10,000 gal.; serv. con. 50; ord. pres. 70 lb.

Rates: flat, $2 mo., bath 50c., closet 50c.

OROVILLE, 495.

MUNICIPAL.
Supt., E. R. Hoose.....Oroville
Des. Engr., G. J. Gardiner..... "

Well, 4-ft. in diam. 22 ft. deep; ½ mi. from center distribution; reservoir, 156,000 gal.

Pumps, 1-504,000 gal. F. M.; gasoline engine, 50-hp. F. M.; elec. motor, 2200 v. 3 ph. 60 cys. F. M.; pumping direct & to reservoir, above.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 50, hose con. 2½-in. Waterous; valves, 12 r. h. thd.; meters, 4 Neptune; av. daily cons. 60,000 gal.; serv. con. 125; ord. pres. 85 lb., fire pres. same.

Rates: meter, 15c. 1000 gal.

ORTING, 799.

ORTING WATERWORKS. (Privately owned.)

Owner & Mgr., R. G. Harmon.....Orting

Springs & reservoir, 2-171,000 gal.; 3.5 mi. from center business section; no purification; gravity distribution.

Pipe, 5.5 mi. 3 to 8-in. wood; hyd. 18, hose con. 2½-in.; valves, 6; meters, none; ord. pres. 107 lb.

Rates: flat, 50c. mo., bath 15c., closet 15c.

PORT TOWNSEND, 4,181.

MUNICIPAL.

Supt., W. J. Sadler.....Port Townsend
Asst. Supt., B. Green..... " "

Mountain streams & spring; 23 mi. from center distribution.

Gravity distribution from reservoirs, 2-6,000,000 gal.

Pipe, 21 mi. 4 to 12-in.; hyd. 62, hose con. 2½-in. Kupferle & Rensselaer; valves, 88 l. h. thd. Crane & Rensselaer; meters, 35 Neptune, National & Hersey; av. daily cons. 350,000 gal.; serv. con. 800; ord. pres. 40 to 125 lb., fire pres. same.

Rates: flat, $1.50 mo., bath 25c., closet 25c.; meter, min. charge $3 mo. 5000 gal., 14c. 1000 gal.

RENTON, 2,740.

MUNICIPAL.

Supt., J. S. Edwards.....Renton
City Clerk, Grant Bates..... "

Springs; 3 mi. from center distribution; no purification.

Gravity distribution from reservoir, 500,000 gal.

Pipe, 20 mi. 4 to 12-in. wood; hyd. 85, hose con. 4-in. Rensselaer; meters, 25 National; serv. con. 775; ord. pres. 30 lb.

REPUBLIC, 999.

PURLEW MINING COMPANY.

Pres., Gen. Mgr. & Pur. Agt.,
A. L. Cappers.....Republic
Sec., Frank N. Allyn..... "

Granite Creek; one mi. from center business section; no purification.

Boiler, return tubular 40-hp. 80 lb.; hand stoking; pumps, 1-1,728,000 gal. hor. d. act. Knowles 1902, 1-1,296,000 gal. hor. d. act. 1914, 1-432,000 gal. hor. d. act. Union 1900; elec. motor, 15-hp. 220 v. 3 ph. 60 cys. G. E. 1915; water-turbine, 80-hp. Pelton; elec. energy from Republic Light & Power Co.; pumping to elev. tanks, 2-219,000 gal.

Pipe, 8 mi. 1½ to 10-in. c. i. & wood; hyd. 15; valves, 6; meters, 10; av. daily cons. 150,000 gal.; serv. con. 275; ord. pres. 80 to 100 lb., fire pres. same.

Rates: flat, $2.50 mo.; meter, 25c. 1000 gal.

ROCKFORD, 663.

MUNICIPAL.

Mayor & Comr., A. D. McDaniel, Rockford
Comr., E. Cosman..... "
" E. C. Smith..... "
Town Clerk, C. W. McDowell.... "
Engr. P'g. Sta., Alex Penslee..... "

Springs; ½ mi. from center distribution.

Pumps, 2 driven by elec. motors; elec. energy from Washington Water Power Co.; pumping direct & to reservoir.

Hyd. 12 Rensselaer; meters, none; serv. con. 56; ord. pres. 60 to 65 lb., fire pres. 65 lb.

Rates: flat, $1.25 mo.

ROLLING BAY, *250.

ROLLING BAY WATERWORKS. (Privately owned.)

Mgr., F. F. Weld,
1713 Hoge Bldg., Seattle, Wash.

Well, 3-ft. in diam. 80-ft. deep; infiltration gallery, 5-ft. in diam. 12-ft. high; at center distribution; chemical, lime.

Pump, 1-14,400 gal. driven by gasoline engine, 2.5-hp. International; pumping to elev. tank, 2-2000 gal. wood.

Meters, 2 Neptune; av. daily cons. 3000 gal.; serv. con. 50; ord. pres. 70 lb.

Rates: flat, $1.50 mo.; meter, $2 for 1000 cu. ft.

ROSALIA, 767.

ROSALIA WATER CO.

Pres., F. J. Wilmer.....Rosalia
V. Pres., Peter Proff, Sr..... "
Sec. & Gen. Mgr., H. L. Paton..... "
Treas., Hans Munn..... "

Wells, 2 tubular 6 & 10-in. 150 & 170 ft. deep; ¼ mi. from center distribution; no purification.

Pumps, 1-75,000 gal. d. act. F. M. 1911, 1-50,000 gal. d. act. F. M. 1907; elec. motor, 15-hp. s. ph. 25 cys. Wagner 1909; pumping to reservoir, 350,000 gal.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 24, hose con. 2-in.; meters, 160; av. daily cons. 50,000 gal.; serv. con. 160; ord. pres. 65 to 125 lb., fire pres. same.

Rates: meter, min. charge $1.50 mo. 1000 gal., 30c. 1000 gal. max., 12.5c. min.

ROSLYN, 3,126.

MUNICIPAL.

City Clerk, Geo. B. Wake.....Roslyn

SEATTLE, 237,194.

MUNICIPAL.

Supt., L. B. Youngs.....Seattle
City Engr., A. H. Dimock..... "
Audr., John Lamb..... "
Engr. P'g. Sta., S. R. Price..... "

Cedar River & Cedar Lake; 28 mi. from center distribution; no purification.

Boilers, 2 Dow; oil fuel; pumps, 3-6,000,000 gal. Dow, 2-1,500,000 gal. ea. Goulds

driven by water-wheels, Pelton, 1-2,750,000 gal. centrifugal driven by elec. motors; elec. motors, 85, 125 & 150-hp. 2200 v. 2 ph. 60 cys.; elec. energy from municipal plant; pumping to reservoirs, 270,100,000 gal. & standpipe, one (1900) 317,000 gal. steel & 2 (1909) 883,000 gal. ea. steel.

Pipe, 498.8 mi. 4 to over 30-in. c. i., steel & wood; hyd. 5434, hose con. 2½ & 4-in. Rensselaer, R. D. W. & Iowa; valves, 5215 Crane & Rensselaer; meters, 36,931; av. daily cons. 30,000,000 gal.; serv. con. 43,000; ord. pres. 40 to 130 lb., fire pres. same.

Rates: meter, min. charge 50c. 500 cu. ft., 6c. 100 cu. ft.

SEDRO WOOLLEY, 2,129.

THE SKAGIT IMPROVEMENT.

Owner, W. R. Morgan.....Sedro Woolley

Impounding reservoir on Nook-a Champs Creek, 2,500,000 gal.; 6 mi. from center distribution; no purification.

Boiler, tubular; hand stoking; pumps, 2 Worth. & F. M.; pumping to tank, 50,000 gal.

Pipe, 16 mi. 4 to 12-in. wood; hyd. 36, hose con. 2½-in. Rensselaer; meters, 40 Pittsburgh; av. daily cons. 300,000 gal.; serv. con. 400; ord. pres. 85 lb.

Rates: flat, min. $1.50 mo.; meter, min. charge $1.35 mo., 30c. 100 cu. ft. max., 2½c. min.

SKYKOMISH, 238.

MUNICIPAL.

Town Clerk, C. E. Greason.....Skykomish

Mountain stream; one mi. from center distribution; no purification.

Gravity distribution from reservoir, 2500 gal.

Pipe, 0.85 mi. 4 to 12-in. c. & w. i.; hyd. 12, hose con. 2½-in. ; av. daily cons. 4000 gal.; serv. con. 40; ord. pres. 75 to 120 lb., fire pres. same.

SOUTH BELLINGHAM, *6,000.

FAIRHAVEN CITY WATER & POWER CO.

Pres. & Gen. Mgr., T. W. Gillette, Bellingham
V. Pres., C. E. Dewey..... "
Sec., F. K. Gillette..... "
Treas., A. C. Miller..... "

Lake Padden; 3 mi. from center distribution.

Gravity distribution.

Pipe, 33 mi. 4 to 30-in. c. i. & wood; hyd. 61, hose con. 2½-in. Rensselaer; meters, 25 various; av. daily cons. 1,000,000 gal.; serv. con. 1105; ord. pres. 100 lb., fire pres. 140 lb.

Rates: meter, 25c. 100 cu. ft. max., 4c. min.

SPOKANE, 104,402.

MUNICIPAL.

Comr. Pub. Utilities, C. M. Fassett, Spokane
Supt., Alex Lindsay..... "
Des. Engr., L. O. Chambers..... "
Engrs. P'g. Sta.,
A. R. Colville & James Grant.... "

Wells driven to underground steam, 3 25-ft. in diam. 35-ft. deep; 5 mi. from center distribution; no purification.

Pumps, 12-2,500,000 gal. Holly, 1-4,500,000 gal. Holly, 4-12,000,000 gal. Allis-C.; elec. motors, 4 900-hp. 2200 v. 3 ph. 60 cys. Allis-C.; elec. energy from Washington Water Power Co.; pumping to reservoir, 2-39,000,000 gal. & standpipe (1900) steel, (1905) concrete, 3 (1910) concrete.

Pipe, 387 mi. 4 to 30-in. c. i., steel & wood; hyd. 2200, hose con. 2½-in. Union, National & Rensselaer; valves, 2653 r. h. thd. Union & National; meters, 13,768 various; av. daily cons. 37,354,000 gal.; serv. con. 25,152; ord. pres. 30 to 150 lb., fire pres. same.

Rates: flat, $1 mo., bath 20c., closet 20c.; meter, min. charge 60c. mo. 6000 gal., 10c. 1000 gal.

SULTAN, 576.

MUNICIPAL.

Mayor, M. A. Fulcher.....Sultan
Town Clerk, W. F. Leavell..... "
Supt., M. H. Mertens..... "
Cons. Engrs., Coast Engrg. Co.....Everett

Impounding reservoir on small stream, 50,000 gal.; 4.5 mi. from center distribution; no purification.

Gravity distribution reservoir, 101,000 gal.

Pipe, 7 mi. 4 to 12-in. wood; hyd. 16, hose con. 2½-in. Iowa; valves, 20; meters, none; serv. con. 136; ord. pres. 80 to 100 lb., fire pres. 125 lb.

Rates: flat, $1 mo., meter, min. charge $1 mo., 60c. 1000 cu. ft.

SUNNYSIDE, 1,379.

MUNICIPAL.

Supt., H. A. Webber.....Sunnyside

Well, 10-in. 300-ft. deep.

Pump, 1-8 x 10 F. M. belted to elec. motor, 30-hp. 220 v. 3 ph. 60 cys. F. M.; pumping to reservoir, 250,000 gal.

Pipe, 5.3 mi. 4 to 8-in. wood; hyd. 22, hose con. 2½-in. Ludlow, Rensselaer & Iowa; valves, 15 r. h. thd. Crane; meters, 400 Pittsburgh; av. daily cons. 35,000 gal.; serv. con. 400; ord. pres. 30 to 35 lb., fire pres. 80 lb.

Rates: all meter 25c. 1000 gal. max., 15c. min.

TACOMA, 83,743.

TACOMA WATER SUPPLY CO. Office, 404 California Bldg.

Mgr., T. G. Keeley.....Tacoma
Supt., John Nichol..... "

Springs; at center distribution; reservoir, 800,000 gal.; no purification.

Boiler, tubular 70-hp.; hand stoking; pumps, 4-3,300,000 gal. 2 duplex steam F. M., one hor. centrifugal Worth. d. con. to elec. motor, 65 kw. 440 v. 3 ph. 60 cys. G. E. & one centrifugal Worth. d. con. to elec. motor, 120 kw. 440 v. 3 ph. 60 cys. G. E.; elec. energy from Puget Sound Trac-

tion, Light & Power Co.; pumping to reservoirs, 2-4,000,000 gal.

Pipe, 27 mi. 4 to 12-in. c. i., steel & wood; hyd. 82, hose cons. 2½-in. Rensselaer, Galvin & Michigan; valves, r. h. thd. Crane; meters, 50 Pittsburgh; av. daily cons. 1,190,000 gal.; serv. con. 1700; ord. pres. 35 to 180 lb., fire pres. same.

MUNICIPAL.

Supt. & Des. Engr., P. S. Savidge...Tacoma
Asst. Supt., W. A. Kunigk..... "

Impounding reservoir on Green River, 100,000 gal.; 43 mi. from center distribution; chemical, liquid chlorine.

Boilers, 7 hor. return tubular 100-hp. 5 Reading & 2 Wash.; hand stoking; pumps 10-18,000,000 gal. Worth., Gordon, Deane & Goulds; elec. motors, 1600 kw. 2200 v. 2 & 3 ph. 60 cys. Westg. & G. E.; elec. energy from municipal plant; pumping for emergency only, gravity distribution from reservoirs, 2-24,000,000 gal. & standpipes (1890, 1909, 1910) steel.

Pipe, 214.5 mi. 4 to 30-in. c. i. & wood; hyd. 1375, hose con. 2½-in. Corey, Galvin, Todd & R. D. W.; valves, r. h. thd. various; meter, 1400 Neptune, Pittsburgh & National; av. daily cons. 20,000,000 gal.; serv. con. 16,606; ord. pres. 25 to 175 lb., fire pres. same.

Rates: flat, 95c. mo., bath 20c., closet 20c.; meter, min. charge $2 mo. 600 cu. ft.

TEKOA, 1,694.

MUNICIPAL.

Chmn. Comrs., B. D. Brigham.....Tekoa
Comr., Charles Heine..... "
" D. Burger..... "
Supt. & Engr. P'g. Sta.,
Chas. Brauner..... "
Chemist, P. S. Culp..... "

Wells, 2 artesian 6-in. 265 & 300 ft deep; ½ mi. from center distribution; reservoir, 450,000 gal.

Boiler, fire-tube 40-hp.; hand stoking; elec. motor, 3 kw. 110 v. d. c. Westg.; elec. energy from Washington Water Power Co.; pumping direct & to reservoir.

Hyd. 35, hose con. 2½-in. Eureka; valves, r. h. thd.; meters, 455 Pittsburgh; av. daily cons. 57,000 gal.; serv. con. 482; ord. pres. 30 to 70 lb., fire pres. same.

TOLEDO, 375.

TOLEDO WATER CO.

Pres., Charles Henriot.
1721 No. Steel St., Tacoma
Sec. & Treas., Cleo Henriot.....Toledo
Supt., T. G. Patterson..... "

Springs: one mi. from center distribution; no purification.

Gravity distribution from rese4voir, 37,700 gal.

Pipe, 2.65 mi. 4 to 12-in. wood; hyd. 15, hose con. 2-in.; valves, 9 r. h. thd. Globe; meters, 5; serv. con. 90; ord. pres. 45 to 65 lb.

VADER, *800.

LITTLE FALLS WATER CO.

Supt., J. W. Evans.....Vader

Mountain stream; one mi. from center business section; gravity distribution.

Pipe, 4 to 12-in. wood; hyd. 25, hose con. 2-in.; meters, none; serv. con. 150; ord. pres. 40 to 85 lb., fire pres. same.

VANCOUVER, 9,300.

WASHINGTON-OREGON CORPN. Office, 1131 Yeon Bldg., Portland, Ore. For officers, see———

Supt., H. K. Lugger.....Vancouver

Springs & wells, 2 160-ft. deep; 5 mi. from center distribution; no purification.

Boilers, 2 hor. fire-tube 60-hp. ea.; hand stoking; pumps, 10; gasoline engines, 2 50-hp.; elec. motors, 3 ph. 60 cys. F. M., Westg., G. E. & Allis-C.; pumping to reservoirs, 2-1,400,000 gal. & elev. tanks, 2-150,000 gal. wood.

Pipe, 76 mi. 4 to 12-in. c. i., w. i. & wood; hyd. 116, hose con. 2½-in.; meters, 500 Pittsburgh; av. daily cons. 2,300,000 gal.; serv. con. 2000; ord. pres. 30 to 78 lb., fire pres. 60 to 125 lb.

Rates: flat, $1 mo.; meter, 30c. 1000 gal.

WAITSBURG, 1,237.

MUNICIPAL.

Supt., J. B. Loundagin.....Waitsburg

Touchet River; ½ mi. from center distribution; settling basin, 20 x 14 ft.; slow sand filter, 500,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, 2-1,132,000 gal. Platt & one centrifugal; elec. motors, 15 & 30-hp. 3 & s. ph. 60 cys. G. E.; elec. energy from Pacific Power & Light Co.; pumping direct & to reservoir, 350,000 gal.

Pipe, 5 mi. 4 to 12-in.; hyd. 34, hose con. 2½-in. Eddy; meters, 275 Neptune; av. daily cons. 104,000 gal.; serv. con. 295; ord. pres. 65 lb., fire pres. same.

WALLA WALLA, 19,364.

MUNICIPAL.

Supt., R. F. McLean.....Walla Walla
Registrar, C. E. Waldron..... " "

Mountain stream; 15 mi. from center distribution; settling basin, 25 x 100 ft.

Gravity distribution.

Pipe, 56 mi. 4 to 12-in. w. i.; hyd. 284, hose con. 2½-in.; valves, 510 r. & l. h. thd.; meters, 441; av. daily cons. 6,000,000 gal.; serv. con. 3800; ord. pres. 100 lb., fire pres. same.

Rates: flat, min. $1 mo.; meter, 20c. 1000 gal. max., 8c. min.

WAPATO, 400.

MUNICIPAL.

Supt., L. T. Mulvaney.....Wapato
Des. Engr.,
D. R. Redman.....No. Yakima, Wash.

Well, 90-ft. deep; ¼ mi. from center distribution.

Pump, 1-432,000 gal. Goulds; gasoline

engine, 30-hp. F. M.; elec. motor, 25-hp. 220 v. 3 ph. 60 cys. F. M.; pumping direct & to elev. tank, 35,000 gal. wood.

Pipe, 3.5 mi. 4 to 12-in. wood; hyd. 27, hose con. 2½-in.; valves, 40 l. h. thd. Crane; meters, 100 Pittsburgh; av. daily cons. 10,000 gal.; serv. con. 100; ord. pres. 23 to 26 lb., fire pres. 60 to 80 lb.

Rates: meter, min. charge $1.20 mo. 300 cu. ft.

WATERVILLE, 950.

MUNICIPAL ELECTIC LIGHT & WATER PLANT.

Mayor, J. B. Bonar.....Waterville
Clerk, J. E. Walker..... "
Treas., J. W. Wolverton..... "
Supt., W. J. Harrington..... "

WENATCHEE, 4,050.

MUNICIPAL.

Mayor, W. O. Parr.....Wenatchee
Chmn. Comrs., B. W. Ludington "
Comr., C. T. White..... "

Columbia River; ½ mi from center distribution; no purification.

Pumps, 1-500,000 gal. B. J., 1-1,000,000 gal. triplex Deane, 1-1,500,000 gal. centrifugal Platt driven by elec. motors; elec. energy from Wenatchee Elec. Co.; pumping to reservoir.

Pipe, 17.75 mi. 1 to 12-in. c. i., steel & wood; hyd. 109; valves, 135; meters, 411; av. daily cons. 879,000 gal.; serv. con. 1219; ord. pres. 30 to 60 lb., fire pres. 90 to 114 lb.

WILSON CREEK, 405.

MUNICIPAL.

Supt., J. W. Brannan.....Wilson Creek
Town Clerk, T. B. Southard.. " "
Des. Engr., C. J. Weller..... " "

Well, 8 x 8 ft. 140-ft. deep; ¼ mi. from center distribution; no purification.

Pumps, 1-360,000 gal. Goulds driven by gasoline engine, 25-hp. Fairbanks; pumping to reservoir, 125,000 gal.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 30, hose con. 2-in.; valves, 2 r. h. thd.; meters, 50 Pittsburgh; av. daily cons, 100,000 gal.; serv. con. 100; ord. pres. 52 lb., fire pres. same.

WINLOCK, 1,140.

WINLOCK WATER CO., INC.

Pres. & Mgr., C. E. Leonard.....Winlock
Sec., M. E. Leonard..... "

Springs; ½ mi. from center distribution; no purification.

Pumps, 2-144,000 gal. F. M. driven by elec. motors, 10-hp. 3 ph. 60 cys. F. M. & Western; elec. energy from Independent Elec. Co.; pumping to reservoir, 250,000 gal.

Pipe, 2 mi. 4 to 12-in. wood; hyd. 17 hose con. 2½-in. Rensselaer; valves, 21 l. h. thd. Rensselaer; meter, 130 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 160; ord. pres. 60 lb., fire pres. same.

Rates: flat, $1 mo.; meter, min. charge $1 mo. 400 cu. ft.

YACOLT, 433.

MUNICIPAL.

City Clerk, W. W. Eaton.....Yacolt

Creek & reservoir, 4,000,000 gal.; 2 mi. from center business section; gravity distribution.

Pipe, 4 mi. 3 to 8-in. wood; hyd. 17, hose con. 2½-in. Iowa; valves, 15 r. h. opening Crane; meters, none; av. daily cons. 130,000 gal.; serv. con. 120; ord. pres. 112 lb., fire pres. same.

Rates: flat, $1.50 mo. including bath & closet.

WEST VIRGINIA

BELINGTON, 1,481.

Consumers Heat, Light, Water & Power Co.
Pres., S. E. Rease . . . . . Belington
V. Pres., A. D. Brown . Pittston, Pa.
Sec. & Supt.,
Charles Brandenburg . . . Belington
Treas., M. Schlosser . . Pittston, Pa.

Boilers, 250-hp. Sterling; steam engine, 110 hp.

BENWOOD, 4,976.

Benwood & McMechen Consolidated Water Co. Office, Harrisburg, Pa. Supplies McMechen.
Pres., A. Grant Richwine. Harrisburg
Sec. & Treas., J. D. Deeter . . "

BLUEFIELD, 11,188.

Bluefield Waterworks & Improvement Co.
Pres., J. M. Wiseman . . Bluefield
Sec. & Treas., Harry M. Kurtz. . "
Cashier, A. L. Rhonds . . . "
Supt., Wm. McCarthy . . . "

Springs & wells; 5 mi. from center distribution; reservoir, 20,000,000 gal.; no purification.

Boilers 2 return tubular 100 hp. ea., 2 water tube 150 hp. ea. Sterling; hand stoking; pumps, 1-1,000,000 gal. duplex Worth., 1 1,000,000 gal. duplex Worth., 1-1,500,000 gal. cross comp. Snow; pumping direct & to standpipe (1 1896, 2 1907) steel.

Pipe, 26 mi 4 to 12 in. c. I.; hyd. 120, hose con. 2½ in. Rensselaer; valves, 283 r. h. thd. Rensselaer, meters, 1410 various; av. daily cons. 82,500 gal., serv. con. 2350; ord pres. 40 to 150 lb., fire pres. same.

Rates: flat, 75c. mo.; meter, min. charge 75c. mo., 25c. 1000 gal.

BUCKHANNON, 2,225.

Buckhannon Light & Water Co
Pres., D S Deeter Philippi
V Pres., G S Steckerg Buckhannon
Sec. & Treas., F A. Moore . Philippi
Gen Mgr., J. P. Mayfield . Buckhannon
Supt., Milton Darcaple "

Boilers, 200 hp Erie; steam engine, 205 hp. Erie.

CAIRO, 668.

Municipal.
Mayor, F C Felty . Cairo
City Recorder, N. D. Morsh . "
Supt., B Atkinson "

Hughes River, ¼ mi. from center distribution, no purification

Pump driven by gasoline engine, Besemer, pumping to reservoir

Av. daily cons. 1000 gal., ord. pres. 100 lb

CAMERON, 1,660.

Municipal.
Supt., L. R. Lowe Cameron
City Recorder, J. L. Fish "

Wells, 14 artesian 6 & 8-in. 105 to 125 ft. deep; ½ mi. from center distribution; no purification.

Pumps, 1 200,000 gal. Ingersoll-Rand driven by gas engines, 2 37 hp. Besemer & Otto; pumping to reservoir, 200,000 gal.

Pipe, one mi. 2 to 6 in.; hyd. 30, hose con. 2-in. Fairbanks; valves, 4 r. h. thd.; meter, 60 Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 340; ord. pres. 80 lb., fire pres. 100 lb.

Rates: flat, 10c. per capita per mo., meter, 50c. 1000 gal.

CEREDO, 1,215.

Ceredo Water & Light Co.
Pres., Max Wright . . . . Ceredo
V. Pres., Dr. W. F. Brum . . . . "
Sec. Treas. & Mgr., C. P. Hoard "

Well, 34 ft. deep with 3 tubular 6 in. 33 ft in bottom; at center distribution; no purification.

Pump, 1-210,000 gal. Goulds driven by gas engines, 20 hp. St. Marys; pumping direct & to reservoir, 270,000 gal.

Pipe, 2 25 mi. 4 to 12 in. c. & w. I.; hyd. 21, hose con. 2½ in. Eddy; valves, 10 r. h. thd. Glamorgan; av. daily cons. 20,000 gal.; serv. con. 200; ord. pres. 82 lb., fire pres. same.

Rates, flat, 50c. mo., bath $5 year, closet $5 year.

CLARKSBURG, 9,201.

Municipal. Waterworks and Sewerage Board.
Pres., W. H. Lewis . . . Clarksburg
Com., J. O. Brooks . . . "
T. J. Lynch . . . . "
Supt. & Pur Agt.,
Scotland G. Highland . . . . "
Cons. Engr.,
George W. Fuller . New York, N. Y
Engr P'g Station,
Karl MacDonald . . . . Clarksburg
Chemist, Perkins Boynton "

West Fork of Monongahela River; one mile from center of business section; 1m pounding reservoirs, 3 210,000,000 gal., coagulating basins, 600,000 gal., mechanical filters, 3,000,000 gal. filtering area, 1072 sq. ft New York C. Jewell; Chemical, sulphate of alumina, hypochlorite of lime and lime.

Boilers, 2 hor. water tube, 200 hp. ea. 95 lb. Erie, 1911, 2 hor water tube, 200 hp ea 95 lb. Keeler 1912, 2 hor. tubular 125 hp ea. Nagel 95 lb 1905, natural gas fuel, pumps, 2 1,000,000 gal ea. hor. comp. d act Laidlaw Dunn Gordon 1896, 1 2,000,000 gal. hor comp d act. Laidlaw Dunn-Gordon, 1908, 1 3,000,000 gal hor centrifugal Worthington 1911, 2 3,000,000 gal vert centrifugal Worthington 1911, pumping d. & to elev tank, 3 (1899) (1911) 1,504,000 gal. steel and concrete.

Pipes, 21 mi 4 to 16 in. c. I.; hyd. 204,

hose con. 2½-in. R. D. W. & Bourbon; valves, 403, l. h. opening, Kennedy; meters, 45 National; av. daily cons. 2,500,000 gal.; serv. con. 2700, ord. pres. 60 to 140 lb., fire pres. same.

Rates: flat, $2.90 quarter; meters, 25c. 1000 gal. max., 5.5c. min.

ELKINS, 5,260.

MUNICIPAL.

Comr., S. E. Tallman.....Elkins
Sec., George Henry..... "
Designing Engr., F. E. Scott..... "
Engr. of P'g. Sta., A. H. Wainer.... "
Chemist, Dr. C. H. Hall..... "

Tygart Valley River; near center of business section; reservoir, 15,000 gal. no purification.

Boilers, 2-80 & 90-hp. 90 lb. Erie and Keeler; pumps, 3-2,000,000 gal. ea. hor. comp. d. act. Worthington; pumping to reservoir, 1,500,000 gal.

Hydrants, 103, hose con. 2½-in. Ludlow; valves, 55, r. h. opening Ludlow; meters, 100 Pittsburgh; serv. con. 800; ord. pres. 100 to 130 lb., fire pres. same.

Rates: flat, $11.00 year; meter, 15c. 1000 gal.

FAIRMONT, 9,711.

MUNICIPAL. Board of Affairs.

Mayor, Anthony Bowen.....Fairmont
Comr., Ira L. Smith..... "
Designing Engr., S. B. Miller..... "
Engr. P'g. Sta., H. W. Stoneking. "
Chemist, Dr. Chesney Rammage.. "

Tygarts River; 2 mi. from center of business section; reservoir, 2-21,000,000 gal.; settling basins, 18,000,000 gal. slow sand filters, 2,500,000 gal. filtering area 0.5 acres; chemicals, none.

Boilers, water-tube, 250-hp. 140 lb. Keeler, 1911, 2 water-tube, 250-hp., 140 lb. Keeler 1911; pumps, 1-4,000,000 gal. hor. simple c. & f. wh. Epping-Carpenter 1913, 1-4,000,000 gal. hor. tri. exp. d. act. Jeansville, 1911; pumping to reservoirs above.

Pipes, 26.5 mi. 4 to 12-in. c. i.; hyd. 212; hose con. 2½-in. Eddy, Ludlow & Bourbon; valves, 201 r. h. opening Kennedy & Fairbanks, meters, 580 Pittsburgh; av. daily cons. 3,750,000 gal. 60%; serv. con. 4475; ord. pres. 55 to 135 lb., fire pres. 80 to 165 lb.

Rates: flat, $1.80 quarter; meter, 30c. 1000 gal. max. 6c. min.

FOLLANSBEE, 2,031.

FOLLANSBEE WATER & LIGHT CO.

Pres., Wm. Banfield.....Follansbee
V. Pres., Thos. J. Mahan..... "
Sec. & Pur. Agt.,
C. D. Crawford..... "
Gen. Mgr., R. E. Crawford..... "

Wells near Ohio River, 3 tubular 10-in. 100-ft. deep; ¼ mi. from center distribution; settling basin, 2000 gal.; chemicals, none.

Pump, 1-500,000 gal. vert. triplex Deming 1910 belted to gas engine, 80-hp. Riverside 1909; pumping to reservoir, 1,250,000 gal.

Pipe, 8 mi.; hyd. 24 Ludlow; valves, 30 Ludlow; meters, 500 National; av. daily cons. 100,000 gal. 100%; serv. con. 500; ord. pres. 150 to 160 lb., fire pres. same.

Rates: all meter, min. charge 50c. mo. 1000 gal., 50c. 1000 gal. 15c. min.

GRAFTON, 1,563.

MUNICIPAL.

Supt., F. B. Cather.....Grafton
Cons. Engrs.,
The W. J. Sherman Co.....Toledo, O.
Engr. P'g. Sta., Henry M. Leps....Grafton

Tygarts Valley; 2 mi. from center distribution; no purification.

Boilers, 4 hor. return tubular 550-hp. Erie; natural gas fuel; pumps, 3-6,000,000 gal. Snow; pumping direct & to reservoir (1893) 448,000 gal. steel.

Pipe, 18 mi. 4 to 14-in. c. i.; hyd. 146, hose con. 2½-in. Ludlow & Darling; meters, none; av. daily cons. 2,250,000 gal.; serv. con. 1500; ord. pres. 170 to 180 lb., fire pres. same.

GUYANDOTTE, 1,702.

SUPPLIED BY THE HUNTINGTON WATER CO. See Huntington.

HAMBLETON, *800.

HAMBLETON WATER CO.

Sec.-Treas., C. O. Roberts.....Hambleton

Roaming Run Creek; 2 mi. from center distribution; no purification.

Gravity distribution.

Hyd. 13; meters, none; serv. con. 200.

Rates: flat, 50c. mo.

HINTON, 3,656.

HINTON WATER LIGHT & SUPPLY CO.

Pres., W. L. Fredeking.....Hinton
V. Pres., S. E. Peck..... "
Sec. Treas. & Mgr., H. Ewart..... "
Supt., R. Wheeler..... "
Engr. P'g. Sta., Everett Allen..... "

Boilers, 600-hp. Sterling; steam engine 725-hp. Skinner.

HUNTINGTON, 31,161.

HUNTINGTON WATER CO. Controlled by the American Water Works & Electric Company, 50 Broad Street, New York, N. Y. Supplies Guyandotte.

Pres., A. M. Lynn.....New York, N. Y.
V. Pres., D. M. Watt..... " " "
Sec., M. F. Riley..... " " "
Treas., W. D. Freer..... " " "
Supt., H. E. Watt.....Huntington
Ch. Engr., G. W. Biggs, Jr.,New York, N.Y.
Engr. P'g. Sta.,
W. H. Robertson.....Huntington
Chemist, W. Donaldson...New York, N. Y.

Ohio River; one mi. from center of business section; settling and coagulating

basins, 50-ft. diam. 20-ft. high; mechanical filters, 4,000,000 gal.; chemicals, sulphate of alumina and lime.

Boilers, 3 water-tube, 578-hp. B. & W.; natural gas fuel; pumps, 6-16,000,000 gal. Worthington, Gordon & R. D. W.; pumping d. and to reservoir, 2,500,000 gal.

Pipes, 50 mi. 4 to 16-in. c. i.; hyd. 370, hose con. 2½-in. R. D. W. & Ludlow; valves, 390 l. h. thd. Ludlow; meters, 3870 various; av. daily cons. 3,000,000 gal.; serv. con. 6360; ord. pres. 100 lb., fire pres. 150 lb.

Rates: meters, 25c. 1000 gal. max., 7.5c. min.

KEYSER, 3,705.

MUNICIPAL.

Mayor, F. H. Babb.....Keyser
Comr., W. W. Long..... "
Supt., H. G. Staurts..... "
Des. Engr., Lee Shade..... "

Springs; 4.5 mi. from center distribution. Gravity distribution from reservoir.

Hyd. 54, hose con. 2½-in.; valves, r. & l. h. thd.; meters, 16 Pittsburgh; serv. con. 1800; ord. pres. 90 to 100 lb.

Rates: flat, $4 mo.; meter, 10c. 1000 gal.

McMECHAN, 2,921.

SUPPLIED BY THE BENWOOD & McMECHAN WATER SUPPLY CO. See Benwood.

MARLINTON, 1,045.

MUNICIPAL.

City Engr., G. W. Dunbaum....Marlinton

MARTINSBURG, 10,698.

MUNICIPAL. Board of Public Affairs.

Pres. C. G. Cushwa.....Martinsburg
Mbr., L. H. Thompson..... "
" T. P. Licklider..... "
Supt., Geo. H. Shaffer..... "

Springs; one mi. from center distribution; chemical hypochlorite of lime.

Boilers, 2 return tubular 100-hp.; hand stoking; pumps, 2-2,000,000 gal. ea. McGowan & Holly; pumping direct.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 160, hose con. 3¼-in. Holly & R. D. W.; valves, 101 r. h. thd. R. D. W.; meters, 112 mostly National; av. daily cons. 1,433,000 gal.; serv. con. 2448; ord. pres. 40 lb., fire pres. 90 lb.

Rates: meter, 20c. 1000 gal. max., 4c. min.

MOOREFIELD, 646.

MUNICIPAL.

Mayor, J. J. Chipley.....Moorefield
Designing Engr., D. R. Siever.... "

North Fork of Potomac River; reservoir, 340,000 gal. one mi. from center of business section; no purification.

Pumping by the Union Tannery Co. to reservoir, 40,000 gal.

Pipes, 3 mi. 2 to 4-in. wrought i.; hyd. 16 hose con. 3-in.; valves, 7 l. h. opening Jenkins; av. daily cons. 26,000 gal.; serv. con. 116; ord. pres. 60 to 75 lb.

Rates: flat $1.50 6-mo., bath $3 year closet, $1.50 year.

MOUNDSVILLE, 8,918.

MOUNDSVILLE WATER CO.

Pres., J. A. Bloyd.....Moundsville
Sec., C. C. Newman..... "
Treas., C. H. Hunter..... "
Supt., Mentor Hetzer..... "

Ohio River & wells, 7 tubular 12-in. 24-ft. deep; ¾ mi. from center distribution; no purification.

Boilers, 2 hor. tubular 100-hp. ea. Atlas; hand stoking; pumps, 1-1,000,000 gal. Worth.; pumping direct & to reservoir, 2,000,000 gal.

Pipe, 17 mi. 4 to 12-in. c. i.; hyd. 67, hose con. 2½-in. Ludlow; valves, 115 l. h. thd. Ludlow & Eddy; meters, 500 National; av. daily cons. 700,000 gal.; serv. con. 1800; ord. pres. 60 to 100 lb., fire pres. same.

Rates: flat, $6 year, modern house $9; meter, 50c. 1000 gal. max., 10c. min.

NEWELL, *1,500.

NEWELL WATER & POWER CO.

Pres., Marcus Aaron.....Newell
Treas., W. E. Wells..... "
Sec. & Gen. Mgr., F. B. Lawrence.. "
Supt., W. H. Wilhelm..... "

Ohio River; one mi. from center distribution.

Pumps, 1-1,000,000 gal. Deming belted to elec. motor, 90-hp. 550 v. d. c. Burke; pumping to reservoir, 1,500,000 gal. & standpipe (1905) iron.

Pipe, 9 mi. 4 to 10-in. c. i.; hyd. 50, hose con. 2½-in. Rensselaer; valves, 60 r. h. thd. Rensselaer; meters, none; av. daily cons. 500,000 gal.; ord. pres. 115 to 120 lb., fire pres. same.

Rates: flat, $1 mo.

NEW MARTINSVILLE, 2,176.

MUNICIPAL.

Pres. Comrs.,
T. M. McIntire.....New Martinsville
Comr., C. T. Gorly..... "
" W. E. Culp..... "
City Clerk,
J. K. Denney..... "
Supt. & Engr. P'g. Sta.,
A. Faucett..... "

Ohio River & wells, 12 tubular 8-in. 13-ft. deep; reservoir, 1-560,000 gal.; slow sand filters, 500,000 gal.

Pumps, 2-500,000 gal. hor. Deming 1910 d. con. to gas engine, 40-hp. Struther-Wells, 1909; pumping to reservoir above stated.

Pipes, 7 mi. 4 to 8-in. c. i.; hyd. 50, hose con. 2½-in.; valves, 40 r. h. opening; av. daily cons. 400,000 gal.; serv. con. 600; ord. pres. 106 lb., fire pres. same.

Rates: flat, $2.88 quarter including bath & closet.

PARKERSBURG, 17,842.

MUNICIPAL.

Supt., E. G. Stephenson.....Parkersburg

Asst. Supt., R. Lyons.....Parkersburg
Cons. Engr., Sam'l. Gray,
Room 929 Weybosset St., Providence, R. I.
Cons. Engr., L. E. Chapin.....Canton, O.
Engr. P'g. Sta.,
C. L. McHenry.....Parkersburg
Chemist, L. O. Rose..... "

Ohio River; 2 mi. from center distribution; mech. filters, 5,000,000 gal. Smith strainer pipe; chemicals, none.

Boilers 2 water-tube 250-hp. B. & W.; pumps, 2-4,000,000 gal. Worth.; pumping to reservoir, 6,000,000 gal.

Pipe, 37.5 mi. 4 to 30-in. c. i.; hyd. 350, hose con. 2½-in. Eddy & Ludlow; valves, 450 l. h. thd. Eddy & Ludlow; meters, 1800 Neptune & Hersey ; av. daily cons. 2,800,000 gal.; serv. con. 4800; ord. pres. 50 to 100 lb., fire pres. same.

Rates: meter, 8c. 100 cu. ft. max., 5c. min.

PARSONS, 1,780.

MUNICIPAL.
City Engr., J. K. Grubb.....Parsons

PHILIPPI, 1,038.

TYGART VALLEY WATER CO. Office, 49 Croton Ave., Ossining, N. Y.
Pres., Henry Gerlach, Jr.....Ossining
Sec. & Treas., Henry Gerlach, Sr.. "
V. Pres. & Gen. Mgr.,
Herbert C. Gerlach..... "
Supt. & Engr. P'g. Sta.,
R. E. S. Hollen.....Philippi

Tygart Valley River; ½ mi. from center distribution; no purification.

Boiler, fire-tube 150-hp. Erie; pump, 1-720,000 gal. Snow; pumping direct & to reservoir, 1,500,000 gal.

Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 26, hose con. 2½-in. Ludlow; valves, 28 r. h. thd. Ludlow & Bourbon; meters, 3 Pittsburgh, Buffalo & National; av. daily cons. 200,000 gal.; serv. con. 240; ord. pres. 137 to 150 lb., fire pres. same.

Rates: flat, $12 year.

PIEDMONT, 2,054.

PIEDMONT WATERWORKS CO. (Municipally owned but operated by foregoing company.)
Pres. & Gen. Mgr., H. B. Carroll, Piedmont
V. Pres., Timothy Kennny..... "

Savage River; 4.5 mi. from center distribution.

Gravity distribution from reservoir, 500,000 gal. & pumping for emergency.

Av. daily cons. 500,000 gal.; ord. pres. 100 lb., fire pres. same.

POINT PLEASANT, 2,045.

POINT PLEASANT WATER & LIGHT CO.
Pres., J. S. Spencer.....Point Pleasant
V. Pres., C. C. Bowyer..... " "
Sec., T. Stribling..... " "
Treas., Gen. Mgr. & Pur. Agt. "
W. H. H. Gardner..... " "
Engr. P'g. Sta., H. K. Fry... " "

Ohio River & wells, 3 tubular 10-in. 115-170-ft. deep; near center distribution; reservoir, 265,000 gal.; settling basins, 150,000 gal. chemical, none.

Boilers, 4 hor. 150-hp. ea. 125 lb. H. S. & G.; hand stoking; pump, 1-500,000 gal. vert. triplex; air compressor, 1000 cu. ft. Ingersoll-Rand, 1912, steam driven; steam engine, 2 250-hp. ea. Buckeye 1912; pumping to reservoir above.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 40, hose con. 2½-in. Bourbon; valves, 40 r. h. opening Bourbon; meters, 275 Neptune & National; av. daily cons. 75,000 gal.; serv. con. 335; ord. pres. 100 lb., fire pres. same.

Rates: flat, $5 year; meter, 5c. 100 gal.

PRINCETON, 3,027.

PRINCETON WATERWORKS COMPANY.
Pres., M. J. Cook.....Princeton
V. Pres., A. W. Reynolds..... "
Sec., Treas. & Supt., E. L. Day.. "
Engr. P'g. Sta., L. C. Delp..... "

Wells, 2 tubular 10-in. 412-ft. deep; one mi. from center distribution.

Boilers, 2 water-tube 126-hp. Keeler; hand stoking; pumps, 2-1,000,000 gal. McGowan; air compressors, 2; pumping to elev. tanks, 100,000 gal. steel.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 33, hose con. 2½-in. Glamorgan; valves, 125 r. h. thd. Glamorgan; meters, 660 various; av. daily cons. 175,000 gal.; serv. con. 769; ord. pres. 65 to 135 lb., fire pres. same.

Rates: flat, min. $2 quarter; meter, 40c. 1000 gal.

RAVENSWOOD, 1,081.

MUNICIPAL.
Mayor, I. S. Bartlet.....Ravenswood
Sec., M. E. Guther..... "
Cons. Engr., W. J. Alexander..Parkersburg

Ohio River & wells, 3 tubular 6-in. 120 ft. deep; near center of business section.

ROMMEY, 1,112.

MUNICIPAL.
Recorder, P. P. Rapey.....Rommey

RONCEVERTE, 2,157.

MUNICIPAL.
Supt., Geo. E. Shikes.....Ronceverte
City Clerk, W. T. Smith..... "
Mayor, Thos. P. Doughty..... "

Greenbrier River; 0.3 mi. from center distribution.

Boiler, fire-tube 80-hp.; mech. stoking; pumps, 2-20,000 gal.; pumping to reservoir, 100,000 gal.

Hyd. 100, hose con. 2½-in.; meters, 226 Pittsburgh & Gamon; av. daily cons. 70,000 gal.; ord. pres. 120 lb.

Rates: flat, $1.50 quarter; meter, 50c. 1000 gal. max., 10c. min.

ST. ALBANS, 1,209.

ST. ALBANS WATER & ELECTRIC LIGHT CO.
Pres., Myron B. Campbell.....St. Albans
V. Pres., & Secy., J. M. Campbell " "
Engr. P'g. Sta., F. Waddy..... " "

Boiler, 125-hp. Dudor; steam engine 85-hp.; gas engine, 55-hp. Bessemer.

ST. MARYS, 1,358.

MUNICIPAL.

Mayor, J. L. Brafford.....St. Marys
Recorder, J. H. McBride..... " "
Supt., John Hubacher..... " "
Engr. P'g. Sta., H. B. Gabbert.. " "

Ohio River & wells, 2 tubular 10-in. 100 ft. deep; ¼ mi. from center of business section; no purification.

Pump, one vert. triplex Dean 1901 belted to gas engine, 40-hp. West'g. 1901, 50-hp. Bessemer 1908; pumping to elev. tank (1901) 150,000 gal. wood.

Pipe, 0.6 mi. 8-in. c. i.; hyd. 29, hose con. 2½-in.; valves, 36, r. h. opening; av. daily cons. 60,000 gal.; serv. con. 282; ord. pres. 90 to 95 lb., fire pres. same.

Rates: flat, $5 year, bath $3.50, closet $3.50.

SHINNISTON, 1,224.

MUNICIPAL.

City Engr., C. B. Hanner.....Shinniston

SISTERSVILLE, 2,684.

MUNICIPAL.

Supt., C. E. Lindsley.....Sistersville
City Clerk, A. T. Holmes..... "

Ohio River; ½ mi. from center distribution; no purification.

Pumps, 2 triplex Goulds 1910, one triplex Goulds 1904, one triplex Goulds 1899 driven by gas engines, 85 & 100 hp. Westg. 1899 & 1909; pumping to reservoir, 1,300,000 gal.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 74, hose con. 2½-in. Bourbon; valves, 90 r. h. opening Bourbon & Crane; meters, 23; av. daily cons. 960,000 gal.; serv. con. 1124; ord. pres. 130 lb., fire pres. same.

Rates: meter, 35c. 1000 gal. max., 8c. min.

SPENCER, 1,224.

SPENCER WATER & ICE CO.

Pres., Walter Pendleton.....Spencer

SUTTON, 1,121.

SUTTON ELECTRIC LIGHT, POWER & WATER CO.

Pres., L. H. Kelly.....Sutton
Sec. & Treas., Alfred Walker..... "
Supt. & Engr. P'g. Sta., O. Nutt.... "

Elk River; ½ mi. from center distribution; no purification.

Boiler, 100-hp.; hand stoking; pumps, 2; pumping to reservoir, 500,000 gal.

Pipe, 3.5 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2-in.; meters, none; serv. con. 225; ord. pres. 90 to 165 lb., fire pres. same.

WAR EAGLE, 1,500.

WAR EAGLE COAL COMPANY.

Pres., Gen. Mgr. & Pur. Agt.,
A. H. Moore.....War Eagle
V. Pres. & Supt., G. W. Coffey.. " "
Sec., M. D. James..... " "
Cons. Engr., D. M. Good.....Williamson
Engr. P'g. Sta., S. Soleman.....War Eagle

Tug River; 2 mi. from center distribution.

Boilers, 2 internally fired 150-hp. ea. 150 lb. Erie 1912; hand stoking; pump, 1-vert. comp. Epping-Carpenter; pumping to reservoir, 2-30,000 gal.

WEIRTON, 4,200.

PHILLIPS SHEET & TIN PLATE CO.

Treas., F. S. Loeb.....Weirton
Engr. P'g. Sta., J. Edw. Collins.... "

Ohio River; ¾ mi. from center distribution; no purification; pumping direct.

Pipe, 1.4 mi. 4 to 12-in. c. i.; hyd. 15, hose con. 2½-in. Bourbon; valves, 12 r. h. thd.; meters, none; av. daily cons. 150,000 gal.; serv. con. 341; ord. pres. 20 to 60 lb., fire pres. 120 to 150 lb.

WESTON, 2,213.

THE WESTON ELECTRIC LIGHT & WATER COMPANY.

Pres., Louis Bennett.....Weston
V. Pres., Andrew Edmiston..... "
Sec., Mgr. & Pur. Agt.,
J. S. Mitchell..... "
Treas., J. S. Vandervort..... "
Cons. Engr., D. D. Britt..... "

West Fork River; settling basin, 250,000 gal.; mech. filter, 1,000,000 gal.; chemicals, hypochlorite of lime, sulphate of alumina & soda ash.

Boilers, 2 water-tube 100-hp. ea. Erie; natural gas fuel; pumps, 2-1,500,000 gal. Snow; elec. motors, 20 kw. 240 v. d. c. Westg.; pumping to reservoir, 600,000 gal.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 42, hose con. 2½-in. Ludlow; valves, 25 r. h. thd. Ludlow; meters, 25 various; av. daily cons. 600,000 gal.; serv. con. 550; ord. pres. 100 to 120 lb., fire pres. same.

Rates: flat, $15; meter, 15c. 1000 gal. max., 20c. min.

WHEELING, 41,641.

MUNICIPAL.

Supt., William J. Scroggins.....Wheeling
City Engr., Charles B. Cooke..... "
Engr. P'g. Sta., W. T. Jenkins.... "

Ohio River.

Boilers, 6 water-tube 200-hp. ea. 105 lb. Heine 1895-7, 2 water-tube 293-hp. 105 lb. Heine 1905; natural gas fuel; pumps, 1-20,000,000 gal. vert. tri. exp. c. & f. wh. Allis-C. 1913, 1-12,000,000 gal. vert. comp. duplex c. & f. wh. Holly 1898, 2-7,500,000 gal. ea. vert. comp. c. & f. wh. Holly 1892; pumping to reservoir.

Pipe, 51.9 mi. 3 to 30-in. c. i.; hyd. 458, hose con. 2 & 4½-in.; meters, 102; av. daily cons. 16,035.000 gal.; serv. con. 10,215; ord. pres. 15 to 102 lb.

WEST VIRGINIA TRACTION & ELECTRIC CO. Supplies suburbs east of Wheeling.

V. Pres. & Mgr., A. N. Dutton...Wheeling

Wheeling creek; 2 mi. from center of business section; wells, 4 tubular 8-in. and 200

ft. deep; settling and coagulating basins, 2-50,000 gal.; mechanical filters, 2-500,000 gal.; chemical, sulphate of alumina.

Pumps, 2-500,000 gal. ea. Gould & Jeanesville belted to elec. motor, two 200-hp. ea. 2200 v. 3-ph. 60 cys. Allis-Chalmers; pumping direct and to reservoir, 1,400,000 gal. and elev. tank, 150,000 gal. wood.

Pipe, 20 mi. 4 to 12-in. c. i.; hyd. 50; meters, 20, Pittsburgh; av. daily cons. 1,250,000 gal.; serv. con. 1500; ord. pres. 100 lb., fire pres. same.

WILLIAMSON, 3,561.

MUNICIPAL.

Supt. Ed., M. L. Allen..... Williamson

WOMELSDORFF, 5,700.

DAVIS COLLERY CO.

Supt., Joe Hoylman..... Womelsdorff
Engr., P'g. Sta. Joe Kerr..... "
Chemist, F. S. Johnson..... "

Roaring Creek; ½ mi. from center distribution.

WISCONSIN

ALGOMA, 2,082.
MUNICIPAL.
Mayor, R. J. Ihlenfeld.....Algoma
Comr., John Busch..... "
" Walter Knospe..... "
" Jos. Wodsedalek..... "
Sec., Julius Meyer..... "
Supt. & Engr. P'g. Sta.,
J. O. Posson..... "

Artesian well, 6-in. 1336 ft.; near center distribution; reservoir, 87,000 gal.; no purification.

Boilers, 2 return tubular 80-hp. ea. Burnes; hand stoking; pumps, 2-500,000 gal. ea.; pumping direct.

Pumps, 4.75 mi. 4 to 12-in. c. i.; hyd. 38, hose con. 2¼-in. Ludlow; valves, 29 r. h. thd. Clow; meters, 198 Hersey & Buffalo; av. daily cons. 40,000 gal.; serv. con. 198; ord. pres. 40 to 60 lb., fire pres. 90 to 110 lb.

Rates; all meter, 20c. 1000 gal. max., 8c. min.

ALMA, 1,011.
MUNICIPAL.
Supt., C. A. Furton.....Alma

AMERY, 659.
MUNICIPAL.
Supt. & Engr. P'g. Sta.,
F. G. Barnier.....Amery

Well, 8-in. 300 ft. deep; near center distribution; no purification.

Pumps, 1-260,000 gal. triplex Goulds d. con. to elec. motor, 12-hp. 60 cys.; pumping direct & to elev. tank, 50,000 gal. wood.

Pipe, 1 mi. 4 to 8-in. c. i.; hyd. 27, hose con. 2¼-in.; valves, 8 r. h. thd.; meters, none; av. daily cons. 60,000 gal.; serv. con. 162; ord. pres. 54 lb.

ANTIGO, 7,196.
MUNICIPAL.
Mayor, I. D. Steffen.....Antigo
City Clerk, G. O. Palmiter..... "
" Engr. & Supt., Henry J. Olk.... "

Springs; ¼ mi. from center distribution.

Boilers, 2 hor. tubular 60-hp. ea. Ft. Wayne; hand stoking; pumps, 2-1,500,000 gal. Worth. & Gordon; pumping to standpipe (1890) steel.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 134, hose con. 2¼-in. Ludlow; valves, 95 l. h. thd. Ludlow; meters, 8 National; av. daily cons. 900,000 gal.; serv. con. 785; ord. pres. 30 to 40 lb., fire pres. 80 to 90 lb.

APPLETON, 16,773.
MUNICIPAL.
Mayor, Mr. Knuppel.....Appleton
Comr., Mr. Teetsup..... "
" & Supt., John Goodland, Jr. "

River; mech. filters, 4,000,000 gal. Jewell; chemicals, frequent.

Pumps driven by oil engines, 2 225-hp. Diesel; pumping to reservoir, 300,000 gal. & standpipe, 500,000 gal. steel.

Pipe, 35 mi. c. i.; hyd. 325; meters, 800; av. daily cons. 2,500,000 gal.; serv. con. 2500; ord. pres. 80 lb.

ARCADIA, 1,212.
MUNICIPAL.
Comr., P. J. Weisenberger.....Arcadia
" J. G. Schneider..... "
" John Roesch..... "
Supt., George Mathys..... "
Engr., P'g. Sta. R. E. Johnson..... "

Artesian well, 8-in. 386 ft. deep; near center distribution; reservoir, 150,000 gal.; no purification.

Boilers, 2 hor. 90-hp. ea. Kreinert; hand stoking; pumps, 1-500,000 gal. Platt; pumping to reservoir, 175,000 gal.

Pipe, 2.6 mi. 4 to 12-in. c. i.; hyd. 26, hose con. 2¼-in. Ludlow; av. daily cons. 40,000 gal.; serv. con. 150; ord. pres. 80 to 92 lb., fire pres. same.

Rates; flat, $5 year, bath $1, closet $3.

BANGOR, 692.
HUSSA BROS., own pumping equipment & tank; Village of Bangor owns the distribution system.
Supt., Emil Hussap.....Bangor

Artesian well.

Boilers, 3 hor. tubular 330-hp. Funk & Lyons; hand stoking; pumps, 2-576,000 gal.; steam Gardner & centrifugal Luitweiler driven by elc. motor, 10 kw. 110 v. d. c.; pumping direct & to elev. tank, 6000 gal. iron.

Pipe, one mi. 4 to 12-in.; hyd. 9, hose con. 2¼-in.; serv. con. 75; ord. pres. 30 lb., fire pres. 100 lb.

Rates; $5 year; meter, 15c. 1000 gal.

BARABOO, 6,324.
MUNICIPAL.
Mayor & Pres. Comrs.,
Geo. T. Thuerer.....Baraboo
V. Pres., Fred Arndt..... "
Sec., W. S. Hazelten..... "
City Engr. & Supt., H. E. French.. "

Springs & wells, 6 open 15 x50 ft. 15 ft. deep; 1 mi. from center distribution; no purification.

Boiler, hor. tubular 125-hp. Atlas; pumps, 3-6,000,000 gal. steam Worth. & 2 steam driven by water-turbine; pumping direct & to standpipe (1888) steel.

Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 145, hose con. 3-in. Ludlow; valves, 55 r. h. thd. Ludlow; meters, 550 National; av. daily cons. 500,000 gal.; serv. con. 1100; ord. pres. 60 to 75 lb., fire pres. 70 to 85 lb.

Rates; meter, 15c. 1000 gal. max., 4c. min.

BARRON, 1,449.
MUNICIPAL.
Pres., Comrs., J. C. Rockman.....Barron
Comr., C. A. Taylor..... "
" J. E. Bowen..... "
" T. J. Thompson.....

Comr., C. J. Borum.....Barron
Clerk, M. H. McKee..... "
Supt., E. H. Jaekel..... "

Yellow River & springs & wells, 2 open 24 ft. in diam. 10 ft. deep; ¾ mi. from center distribution.

Pump, 1-720,000 gal. duplex Gordon driven by gasoline engine, 30-hp. F. M.; pumping to elv. tank, 35,000 gal.

Pipe, 3.3 mi. 2 to 6-in.; hyd. 29, hose con. 2¼-in. Waterous & Rensselaer; meters, none; av. daily cons. 77,500 gal.; serv. con. 227; prd. pres. 45 lb., fire pres. 100 lb.

BAYFIELD, 4,689.

MUNICIPAL.

Pres. Comrs., H. J. Wachsmuth....Bayfield
Supt., F. M. Herrick, Jr..... "

Lake Superior; ¼ mi. from center distribution; no purification.

Boilers, 2 return tubular 150-hp. Williams; hand stoking; pumps, 2-20,000 gal. ea. Platt; pumping direct & to reservoir, 150,000 gal.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 44, hose con. 2¼-in. Holly, Eddy & R. D. W.; valves, 33 r. h. thd. Crane; meters, 256 Pittsburgh, Neptune & Hersey; av. daily cons. 95,000 gal.; serv. con. 341; ord. pres. 120 lb., fire pres. same.

Rates; flat, 50c. mo., bath 35c., closet 25c.; meter, 35c. 1000 gal. max., 8c. min.

BEAVER DAM, 6,758.

MUNICIPAL.

Mgr., F. M. Hetrick.....Beaver Dam

Wells, 3 6-in. 300 to 500 ft. deep.

Boilers, 2 hor. tubular 115-hp. ea. Milwaukee; hand stoking; punps, 1-2,500,000 gal. Prescott, 1-1,500,000 gal. Worth.; pumping direct & to standpipe (1886) steel.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 146, hose con. 2¼-in. Rensselaer; valves, 85 r. h. thd.; meters, 7; av. daily cons. 750,000 gal.; serv. con. 1400; ord. pres. 50 to 65 lb., fire pres. 85 to 100 lb.

Rates, meter, 14c. 1000 gal. max., 7c min.

BELMONT, 532.

MUNICIPAL.

Chmn. Comrs., G. B. Huggins.....Belmont
Supt., J. C. Pfeifer..... "

Well, 8-in. 170 ft. seep; ¼ mi. from center distribution.

Boiler, tubular 100-hp. Freeman; hand stoking; pumps, 1-86,400 gal. Keystone; pumping to elev. tank, 60,000 gal. steel.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 16 Rensselaer; valves, 6 r. h. thd. Rensselaer; meters, none; av. daily cons. 60,000 gal.; serv. con. 80; ord. pres. 45 to 60 lb., fire pres. same.

Rates; flat, $4.50 year.

BELOIT, 15,152.

BELOIT WATER, GAS & ELECTRIC CO.

Pres., E. G. Cowdery.....Beloit
V. Pres. & Gen. Mgr., B. F. Lyons.... "
Sec., C. H. Deppe.....Beloit
Treas., H. A. Von Oven..... "
Asst. Sec., E. L. Moorman..... "
Supt., R. G. Krumrey..... "

Wells, 30 ft. in diam. 40 ft. deep, 45 tubular 4 & 6-in. 77 to 80 ft. deep.

Boilers, 3 tubular 40 & 100-hp. Variety & 2 Frost; hand stoking; pumps, 9-8,000,000 gal. 5 F. M., 2 Platt & 2 De Laval; elec. motors, 30 & 40-hp. 2300 v. 3 ph. 60 chys. G. E. & Westg.; pumping direct, to reservoir, 423,000 gal. & elev. tank, 112,500 gal. stone & wood.

Pipe, 27.9 mi. 4 to 16-in. c. i.; hyd. 228, hose con. 2½-in. R. D. W.; valves, 185, mostly l. h. thd. Ludlow; meters, 2460 Neptune; av. daily cons. 1,679,000 gal.; serv. con. 2750; ord. pres. 50 to 55 lb., fire pres. 70 to 90 lb.

Rates; flat, $1.25 quarter; meter, min. charge $1 quarter, 7½c. cu. ft. max., 1½c. min.

BLACK RIVER FALLS, 1,917.

MUNICIPAL.

Supt., E. J. Greenlee.....Black River Falls
Vil. Clerk, T. Taylor..... " " "

Creek; settling basin, 20,000 gal.

Boiler, return tubular 50-hp. 80 lb. 1886; hand stoking; pumps, 1-1,000,000 gal. hor. duplex Platt 1886, 1-1,000,000 gal. vert. triplex Platt 1886; elec. motor, 50-hp. 220 v. 3 ph. Ft. Wayne 1910; pumping to standpipe (1886) 150,000 gal.

Pipe, 3.5 mi. 4 to 10-in. c. i.; hyd. 27, hose con. 2¼-in. Eddy; valves, 26 l. h. thd. Eddy; meters, 90 Neptune, Pittsburgh & Buffalo; av. daily cons. 100,000 gal. 75%; serv. con. 350; ord. pres. 80 to 100 lb., fire pres. same.

Rates; flat, $5 year, bath $1, closet $3; meter, min. charge $5 year, 30c. 1000 gal. max., 10c. min.

BLANCHARDVILLE, 643.

MUNICIPAL.

Pres. Comrs.,
D. A. McKellor.....Blanchardville
Comr., Joseph Gand..... "
" James Blanchard.... "
Supt. & Engr. P'g. Sta.,
T. H. Burman..... "

Wells, 2 tubular 5 & 6-in. 100 to 220 ft. deep; near center distribution; no purification.

Boilers, 2 tubular & marine 35-hp. Freeman; hand stoking; pumps, 1-108,000 gal. American; pumping to reservoir, 99,000 gal.

Pipe, one mi. 6-in. c. i.; hyd. 16, hose con 3-in. Eddy; valves, 8 r. & l. h. thd. Eddy; meters, 8 Hersey; av. daily cons. 20,000 gal.; serv. con. 58; ord. pres. 60 to 95 lb., fire pres. same.

Rates; meter, 20c. 100 cu. ft.

BLOOMER, 1,204.

MUNICIPAL.

Vil. Clark & Pur. Agt.,
E. R. Pardee.....Bloomer

Supt. & Engr. P'g. Sta., J. Velten.. Bloomer

Wells, 2 tubular 12-in. 200 ft. deep; ¼ mi. f rom center business section; no purification.

Pumps, 2 vert. s. F. M. 1907 & 1911 geared to elec. motors 210-hp. & gasoline engine, 10-hp. F. M. 1907; elec. energy from Bloomer Electric Light & Power Co.; pumping to standpipe (1907) 68,000 gal.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 26, hose con. 2¼-in. Waterous & Rensselaer; valves, r. h. opening Rensselaer.

Rates; meter, $1.25 quarter 500 gal., 25c. 1000 gal. max., 20c. min.

BOSCOBEL, 1,525.

MUNICIPAL.

Mayor, S. W. Lewis.....Boscobel
City Clerk, H. J. Johnson..... "
Chmn. Comrs., H. O. Holt..... "
Supt., Chas. A. Blain..... "

Well, 12-in. 750 ft. deep; near center distribution.

Pump, 1-432,000 gal. Goulds d. con. to elec. motor, 25-hp. 110 v. a. c.; pumping to reservoir; 100,000 gal.

Hyd. 48, hose con. 2¼-in. Iowa; valves, 12; meters, 50 Pittsburgh; serv. con. 50; ord. pres. 75 lb.

Rates; all meter, 30c. 1000 gal. max., 15c. min.

BROADHEAD, 1,517.

MUNICIPAL.

Supt., Jesse Miller.....Broadhead

BURLINGTON, *4,000.

MUNICIPAL.

Chmn. Comrs., Edw. Barry.....Burlington
Comr., Wm. Rothering..... "
" Geo. Smith..... "
City Clerk, Joe Johann..... "
Supt. & Engr. P'g. Sta.,
Frank Weinman..... "

Wells, 3 artesian 8-in. 150 to 1000 ft. deep; near center business section; reservoir, 80,000 gal.; no purification.

Boilers, 2 hor. tubular 110-hp. 90 to 100 lb. Freeman 1907; hand stoking; pumps, 2-720,000 gal. hor. s. d. act. Barr 1890 & hor. comp. d. act. Platt 1905; air compressor, 550 cu. ft. Ingersoll-Rand 1907 steam driven; pumping to standpipe (1890) 75,000 gal. wood.

Pipe, 14 mi 3 to 8-in. c. i.; hyd. 103, hose con. 2¼-in. R. D. W. & Eddy; valves, 104 l. h. opening; meters, 725 various; av. daily cons 250,000 gal. 60%; serv. con. 730; ord. pres. 60 to 75 lb., fire pres. same.

Rates; meter, min. charge $5 year 33,333 gal., 15c. 1000 gal. max., 6c. min.

CAMBRIDGE, 507.

MUNICIPAL.

Vil. Pres., E. N. Potter.....Cambridge
" Treas., A. V. Prescott..... "
" Clerk, C. R. Clarke..... "
Supt., P. C. Westphal..... "
Engr., P'g. Sta., W. B. Telyea... "

Artesian well; near center distribution.

Pump, 1-500,000 gal. vert. triplex Goulds 1901 belted to elec. motors, 2 25-hp. ea. 110 v. d. c. & oil engines, two 25-hp. ea. 1914; pumping to elev. tank (1901) 47,500 gal. wood.

Pipe, 1.25 mi. 4 to 8-in. c. i.; hyd. 15, 4 to 8-in. c. i.; hyd. 15, hose con. 3-in. Rensselaer; valves, 7 l. h. thd.; meters, none; av. daily cons. 21,250 gal.; serv. con. 76; prd. pres. 50 to 60 lb., fire pres. 85 to 90 lb.

Rates; flat, $5 year, bath $1, closet $1.

CLEAR LAKE, 498.

MUNICIPAL.

Comr., C. R. Peirson.....Clear Lake
" P. R. Anderson..... " "
" E. L. Knight..... " "
Vil. Clerk, W. L. Sasler, Jr..... " "
Engr. P'g. Sta., S. H. Brodt..... " "

Well, 6-in.; near center distribution; no purification.

Pumps, 1-50,000 gal. hor. duplex American 1912 belted to gasoline engine 7-hp. Stickney 1912; pumping direct & to elev. tank (1912) 40,000 gal. steel.

Pipe, 0.8 mi. 4 & 6-in. c. i.; hyd. 7, hose con. 2¼-in. Iowa; valves, 5 l. h. opening; meters, 16 Pittsburgh; av. daily cons. 5000 gal. 80%; serv. con. 32; ord. pres. 31 to 42 lb., fire pres. same.

Rates; meter, min. charge $1.50 quarter 3000 gal., 50c. 1000 gal. max., 30c. min.

CLINTONVILLE, 1,747.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Pres., Edward Felshow.....Clintonville
V. Pres., Ferdinand Goerlinger.. "
Comr., Otto Zachow..... "
" J. H. Spearbraker..... "
" Rud. Schmiedeke..... "
Supt. & Engr. P'g. Sta.,
Geo. C. Stewart..... "

Wells, 7 tubular 4 & 6-in. 32 ft. deep; ¼ mi. from center distribution.

Boilers, 2 hor. tubular 100-hp. ea. 125 lb. Freeman & Frost 1902 & 1904; pumps, 1-936,000 gal. hor. comp. d. act. American 1910; pumping to elev. tank (1910) 60,000 gal. steel, Illinois Steel Company.

Pipe, 2.5 mi. 4 to 10-in. c. i.; hyd. 21, hose con. 2¼-in. Ludlow; valves, 10 l. h. opening Hoffman; meters, 80 Badger; av. daily cons. 20,000 gal.; serv. con. 150; ord. pres. 55 to 65 lb., fire pres. 65 to 125 lb.

Rates; all meter, min. charge $1 quarter, 12c. 1000 gal. max., 6c. min.

COLBY, 869.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Sec., Richard Zillman.....Colby
Treas., John Tribnow..... "
Mgr., Chas. F. Maahs..... "
Engr. P'g. Sta., L. W. Frane..... "

Boiler, 80-hp. Morgan; steam engine, 75-hp. Wis.

COLFAX, 701.
MUNICIPAL.
Mayor, O. G. Kinney.....Colfax
Supt., Geo. A. Harsh..... "
Well, 8-in. 252 ft. deep; one mi. from center distribution; no purification.
Pump, 1-230,000 gal. driven by gasoline engine, 15-hp. international; pumping to elev. tank (1914) 40,000 gal. steel.
Pipe, 1.3 mi. 4 to 12-in. c. i.; hyd. 14; meter, 40; serv. con. 40; ord. pres. 40 to 47 lb., fire pres. same.

COLUMBUS, 2,523.
MUNICIPAL WATER WORKS & ELECTRIC LIGHT PLANT.
Mayor, C. Gampage.....Columbus
Pres. of Comrs., Henry Wrede.... "
Sec., J. A. Putnam..... "
Supt., A. T. Loomis..... "
Boiler, 230-hp. Erie; steam engine, 360-hp. Ideal.

CUBA CITY, 967.
MUNICIPAL. Cuba City Electric Light & Waterworks.
Pres. Comrs., L. W. Porter.....Cuba City
Clerk, W. Brewer..... " "
Supt., J. R. Kay..... " "
Well, 7-in. 100 ft. deep.
Pump, 1-129,600 gal. Smedley driven by elec. motor, 10-hp. 120 v. 3 ph. 60 cys. G. E.; pumping to elev. tank, 60,000 gal. steel.
Hyd. 19, hose con. 2¼-in. mostly Kupferle; valves, 5; meters, 45; av. daily cons. 20,000 gal.; serv. con. 100; ord. pres. 52 to 55 lb., fire pres. same.
Rates; flat, $5 year; meter, 40c. 1000 gal. max., 15c. min.

CUDAHY, 3,691.
CUDAHY BROS. CO. This company does the pumping for the Municipal Plant below.
Pres., Patrick Cudahy.....Cudahy
Pur. Agt., Ed. F. Lawler..... "
Sec., James Bryden..... "

MUNICIPAL WATER WORKS COMMISSION.
Mayor, Christ Woehsner.....Cudahy
Chmn. Comrs., Joseph Wagner..... "
City Clerk, J. C. Dutzha..... "
Supt., N. Collette..... "
Cons. Engr., W. C. Hughes.....Milwaukee
Engr. P'g. Sta., G. A. Hoffmann....Cudahy
Lake Michigan; 1.5 mi. from center distribution; chemical, liquid chlorine.
Boilers, 3 return tubular 90-hp. ea. 95 lb. Milwaukee; hand stoking; pumps, 1-2,000,000 gal. hor. comp. d. act. Prescott, 1-2,000,000 gal. hor. comp. d. act. Prescott, 1-6,000,000 gal. hor. comp. c. & f. wh. Nordberg 1913; pumping direct.
Pipe, 9.5 mi. 1 to 24-in. c. i.; hyd. 110, hose con. 2¼-in. R. D. W.; valves, 65 r. h. opening; meters, 515 Badger & Worth.; serv. con. 519; ord. pres. 35 to 50 lb., fire pres. 45 to 70 lb.
Rates; all meter, min. charge 30c. quarter 500 cu. ft., 6c. 100 cu. ft.

CUMBERLAND, *1,500.
MUNICIPAL.
Mayor, F. Alger.....Cumberland
Sec., A. J. Chubb..... "
Supt., A. E. Ledgering..... "
Well, 10-in. 650 ft. deep; ½ mi. from center business section; no purification.
Boilers, 2 fire-tube 100 & 150-hp. 120 lb. Kewanee 1904; pumps, 1-150,000 gal. vert. triplex Sandusky 1907 chain driven from elec. motor, 15-hp. 220 v. 3 ph. 60 cys. Ft. Wayne; steam engines, 120-hp. Ideal, 160-hp. Lane & Bodley; pumping to tank, 61,000 gal.
Pipe, 2.5 mi. 6-in c. i.; hyd. 28, hose con. 2¼-in.; valves, 12 l. h. opening; meters, none; serv. con. 282; ord. pres. 40 to 70 lb., fire pres. 60 to 80 lb.

DELAVAN, 2,450.
MUNICIPAL.
Pres. Comrs., D. M. Duggan.....Delavan
Comr., D. E. La Bar..... "
" E. Gormley..... "
" B. Tyrrell..... "
" R. C. Lillibridge..... "
Sec., W. R. Topping..... "
Supt., O. W. Blanchard..... "
Chemist, State University...Madison, Wis.
Springs, 2-85,000 gal.; ½ mi. from center distribution; no purification.
Boilers, 2 hor. tubular 70-hp. ea. 75 lb. F. M. 1893 & 1894; hand stoking; pumps, 2-720,000 gal. hor. simple duplex F. M. 1893 & 1897; pumping to elev. tank (1893) 50,000 gal. brick & wood.
Pipe, 8 mi. 4 to 8-in. c. i.; hyd. 67, hose con. 2¼-in. Eddy & R. D. W.; valves, 8 r. & l. h. opening Clow; meters, 475 National, Thomson & Hersey; av. daily cons. 85,000 gal. 90%; serv. con. 470; ord. pres. 30 to 37 lb., fire pres. 85 to 95 lb.
Rates; all meter, min. charge $1 mo., 18c. 100 cu. ft. max., 10c. min.

EAGLE RIVER, 1,131.
EAGLE RIVER LIGHT & WATER CO. Municipally owned.
Pres. & Gen. Mgr.,
D. E. Riordan.....Eagle River
Water turbines, 300-hp. Lombard.

EAST MILWAUKEE, 707.
MUNICIPAL.
Chmn. Comrs.,
B. G. Van Deven.....East Milwaukee
Comr., E. B. Arnold..... " "
" J. B. Harkins..... " "
Vil. Clerk, Theo. B. Olsen.. " "
Supt. & Des. Engr.,
F. W. Ullins, Jr..... " "
Lake Michigan; pipe, 9 mi. 6 & 8-in. c. i; hyd. 100, hose con. 3-in.; valves, 70 r. h. opening; meters, 233; serv. con. 233; ord. pres. 14 to 35 lb., fire pres. same.
Rates; all meter, min. charge 50c. quarter 6c. 100 cu. ft.

EAST TROY, 673.

MUNICIPAL.

Supt. & Engr. P'g. Sta.,
Chas. H. Duncan.....East Troy
Vil. Clerk, O. R. Kurzrok..... " "
Cons. Engr., W. G. Kirchoffer.....Madison

Artesian well, 6-in. 670 ft. deep; at center distribution; no purification.

Pump, 1-130,000 gal. Goulds belted to gasoline engine, 15-hp. International; pumping to standpipe (1907) 35,000 gal. steel.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 28, hose con. 2¼-in. Rensselaer; valves, 14 l. h. thd. Rensselaer; meters, 76 National & Badger; av. daily cons. 21,000 gal.; serv. con. 80; ord. pres. 50 to 55 lb., fire pres. 55 to 60 lb.

Rates; meter, min. charge $5 for 25,000 gal.

EAU CLAIRE, 18,310.

MUNICIPAL.

Comr. & Supt., W. H. Willard...Eau Claire
Pur. Agt., J. C. Fennessey..... " "

Wells, 104 tubular 40 to 70 ft. deep; reservoir, 600,000 gal.; no purification.

Boilers, 3; pump, 4-1,500,000 gal. ea. triplex Phoenix, 1-2,500,000 gal. steam duplex platt, 1-1,500,000 gal. duplex F. M., 1-3,000,000 gal. centrifugal Worth.; pumping direct.

Pipe, 43.5 mi. 4 to 20-in.; hyd. 420 R. D. W.; valves, 326 Eddy; meters, 2062 Neptune, Pittsburgh, Thomson & Hersey; av. daily cons. 2,500,000 gal.; serv. con. 3025; ord. pres. 70 lb.

Rates; flat, $1 quarter, bath $1, closet $1; meter, min. charge 75c. quarter 600 cu. ft., 12½c. cu. ft. max., 4c. min.

EDGERTON, 2,513.

MUNICIPAL.

Mayor, Allen Skinner.....Edgerton
Chmn. Comrs., August Dallman.. "
Supt., James Reynolds..... "

Well, 10-in. 1000 ft. deep.

Pumps, 2 tubular 80-hp. Wheeler & Ambrose; hand stoking; pumps, 2-750,000 gal. ea. Platt; pumping to standpipe (1897) 125,000 gal. iron.

Hyd. 57, hose con. 2¼-in Eddy; valves, 34 r. h. thd. Eddy; meters, 518 Hersey & Badger; av. daily cons. 123,000 gal.; serv. con. 540; ord. pres. 67 lb., fire pres. 120 lb.

Rates; meter, 12c. 1000 gal.

ELKHORN, 1,707.

MUNICIPAL LIGHT & WATER COMMISSION.

Pres., J. H. Harris.....Elkhorn
Mayor, C. F. Graff..... "
Comr., F. M. Porter..... "
" Chas., Pieplow..... "
" A. G. Olson..... "
City Clerk, A. C. Olson..... "
Supt., F. S. Ohlsson..... "
Engr. P'g. Sta., Max Harkness..... "

Artesian well, 6-in. 1056 ft. deep; ¾ mi. from center business section; reservoirs, 2-130,000 gal.

Boilers, Scotch marine 200-hp. 120 lb. Springfield 1904, 2 fire-tube 70-hp. ea. 110 lb. Freeman 1895; pumps, 1-480,000 gal. hor. comp. d. act. Deane 1897, 1-720,000 gal. hor. centrifugal Worth. 1913 d. con. to elec. motor 40-hp. 220 v. s. ph. 60 cys. Wagner 1913; air compressors, 200 & 600 cu. ft. Ingersoll-Rand 1897 & 1910 steam driven; steam engines, 125-hp. Ball 1898, 250-hp. Filler & Stowel 1904; pumping to standpipe (1895) 75,000 gal.

Pipe, 6.2 mi. 4 to 8-in. c. i.; hyd. 52, hose con. 2-in. Crane; valves 19 r. h. opening Eddy; meters, 295 National, Badger & Pittsburgh; av. daily con. 160,000 gal. 25%; serv. con. 297; ord. pres. 45 to 57 lb. fire pres. 60 to 80 lb.

Rates; all meter, min. charge 75c. quarter, 30c. 1000 gal. max., 7.5c. min.

ELLSWORTH, 1,005.

MUNICIPAL.

Pres., W. L. Oltman.....Ellsworth
Supt., A. D. Hoffman..... "
Vil. Clerk, C. B. Wood..... "

Artesian well, 6-in. 612 ft. deep; near center business section; reservoir, 100,000 gal.; no purification.

Pump, 1-60,000 gal. vert. Goulds; elec. motor, 10-hp. 220 v. 3 ph. 60 cys. G. E. 1910; elec. energy from Wisconsin & Minnesota Light & Power Co.; pumping to elev. tank (1902) 100,000 gal. steel, Des Moines Bridge & Iron Works.

Pipe, 2.25 mi. 4 to 8-in. c. i.; hyd. 29, hose con. 2¼-in. Waterous; valves, 12 l. h. opening; meters, 126 Buffalo; av. daily cons. 12,000 gal. 85% serv. don. 128; ord. pres. 45 to 110 lb., fire pres. same.

Rates; meter, min. charge 40c. six mos. 5000 gal., 50c. 1000 gal. max., 40c. min.

EVANSVILLE, 2,051.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Pres. Comrs., W. G. Patterson...Evansville
Pur. Agt., F. A. Baker..... "
Treas., G. L. Pullen..... "
Comr., O. D. P. Chapin..... "
" C. J. Pearcell..... "
Supt., E. S. Cary..... "
Engr. P'g. Sta., E. J. Gibbs..... "

Wells, 3; no purification.

Boilers, 2 return tubular 200-hp. Springfield; hand stoking; pumps, 2-720,000 gal. & 1-288,000 gal. Platt; elec. motors, 10-hp. 220 v. 3 ph. 60 cys. Westg.; pumping to standpipe (1902) steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 54, hose con. 2¼-in. Ludlow; valves, 35 l. h. thd. Ludlow; meters, 300 National; av. daily cons. 57,000 gal.; serv. con. 300; ord. pres. 60 to 75 lb., fire pres. 125 lb.

Rates; meter, min. charge $1 quarter, 18c. 100 cu. ft. max., 8c. min.

FENNIMORE, 1,159.

MUNICIPAL ELECTRIC LIGHT PLANT.

Pres. Comrs., A. B. Bailey.....Fennimore
Sec., H. B. Lewis..... "

Supt., J. E. Emshoff.....Fennimore
Engr., P'g. Sta., J. A. Graham.. "
Boiler, 200-hp. Atlas; steam engine, 95-hp.

FLORENCE, 1,870.
MUNICIPAL.
Pres. Comrs., Ed. Wilcox.....Florence
Comr., Carl Johnson..... "
" Gust. Westin..... "
Sec., Geo. C. Youngs..... "
Supt. & Engr. P'g. Sta., O. Trempe "
Fisher Lake; 1/4 mi. from center business section; no purification.
Boilers, 2 80-hp. ea. 85 lb. Pollock 1888; hand stoking; pumps, 2-504,000 gal. ea. hor. simple d. act. Knowles 1888; steam engine, 180-hp. Corliss-Allis-C. 1904; pumping direct.
Pipe, 2 mi. 4 & 6-in. w. i.; hyd, 32, hose con. 2½-in. Eddy; valves, 8 l. h. opening; av. daily cons. 167,000 gal.; serv. con. 260; ord. pres. 55 lb., fire pres. 120 lb.

FOND DU LAC, 18,797.
MUNICIPAL.
Pres. Comrs., John T. Ahern..Fond du Lac
Sec., John J. Breister..... " "
Mayor, Frank J. Wolff..... " "
Comr., Maurice McKenna.... " "
" W. W. Wild..... " "
Supt., W. H. Masson..... " "
Wells, 9 tubular 6 to 16-in. 650 ft. deep; reservoir, 2,500,000 gal.
Boilers, 2 water-tube 150-hp. ea. Erie, one Scotch marine 150-hp. Reliance; hand stoking; pumps, 2-3,000,000 gal. ea. Holly; pumping direct.
Hyd. 247, hose con. 2½-in. Holly, Ludlow & Eddy; meters, 2500 National, Badger, Pittsburgh, Neptune & Hersey; av. daily cons. 1,200,000 gal.; serv. con. 3,500; ord. pres. 40 lb., fire pres. 90 to 130 lb.
Rates; flat, $6 year, bath $5, closet $5; meter, 40c. 1000 gal. max., 38c. min.

FORT ATKINSON, 3,877.
MUNICIPAL LIGHT & WATER PLANT.
Mayor & Pres. Comrs.,
Geo. A. Eales.....Ft. Atkinson
Sec., H. H. Curtis..... " "
V. Pres., L. D. Royce..... " "
Treas., A. D. Merrill..... " "
Supt. & Mgr., W. D. Leonard.. " "
Engr. P'g. Sta.,
Charles Nothbohm..... " "
Artesian well, 10-in. 750 ft. deep; at center distribution; reservoir, 300,000 gal.; no purification.
Boilers, 2 270-hp. water-tube B. & W. & fire-tube Domfeldt Kemert; pumps, 2-2,000,000 gal. Platt; elec. motor, 7 kw. 220 v. 3 ph. 60 cys. F. E.; pumping direct & to standpipe, 150,000 gal. brick & steel.
Pipe, 9 mi. 4 to 12-in. c. i.; hyd. 105, hose con. 2½-in. Rensselaer & Pratt & Cady; valves, 100 r. & l. h. thd. Eddy; meters, 700 Hersey, Buffalo & Pittsburgh; serv. con. 708; ord. pres. 55 to 65 lb., fire pres. 125 lb.
Rates; all meter, min. charge 75c. quarter, 8c. 100 cu. ft. max., 3¼c. min.

GAYS MILLS, 557.
MUNICIPAL.
Supt., D. E. Gander.....Gays Mills
Vil. Clerk, H. R. Pomeroy..... " "
Well, 235 ft. deep; at center distribution; reservoir, 60,000 gal.
Pump, 8 x 8 triplex National driven by gasoline engine, 20-hp. F. M.
Hyd. 5, hose con. 2¼-in.; av. daily cons. 15,000 gal.; serv. con. 68; ord. pres. 110 lb. fire pres. same.

GLIDDEN, 606.
MUNICIPAL.
Chmn. Comrs., Geo. Deringer.....Glidden
Town Clerk, R. Frank..... "
Supt., T. F. Keefe..... "
Springs & Chippewa River & artesian well, 16-in.; near center business section; settling basin, 45,000 gal.; no purification.
Boilers, 70 lb. F. M. 1901; hand stoking; pumps, 1-35,000 gal. hor. tri. exp. d. act. F. M. 1901; steam engine, 15-hp. F. M. 1901; pumping to elev. tank (1901) 45,000 gal. wood.
Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 11, hose con. 2-in.; valves, one r. h. opening; av. daily cons. 35,000 gal.; serv. con. 116; ord. pres. 70 to 74 lb., fire pres. same.
Rates; flat, $7.50 year, bath $2, closet $2.

GRAND RAPIDS, 6,521.
MUNICIPAL.
Mayor, James Cohen.....Grand Rapids
Comr., W. Wheelan..... " "
" John Jeffrey..... " "
" E. Rossier..... " "
" G. Rowland..... " "
Supt., Fred Pfeiffer..... " "
Des. Engr., Ed. Philleo..... " "
Wisconsin River; one mi. from center distribution; wells, 126 open 3 ft. in diam. 8 to 24 ft. deep; reservoir, 125,000 gal.; no purification.
Boilers, 45-hp. Brownell; hand stoking; pumps, 1-1,080,000 gal. F. M.; elec. motors, 350-hp.; pumping direct & to standpipe (1900) iron.
Pipe, 18 mi. 4 to 12-in. c. i.; hyd. 125, hose con. 2¼ & 4¼-in. R. D. W.; valves, 150 r. & l. h. thd. Crane, Eddy, Clow & meters, 525 various; av. daily cons. 400,000 gal.; serv. con. 914; ord. pres. 75 to 95 lb., fire pres. same.
Rates; flat, $5 year, bath $4, closet $4; meter, 15c. 1000 gal. max., 5c. min.

GREEN BAY, 25,236.
THE GREEN BAY WATER CO.
Pres., Wm. Larsen.....Green Bay
Sec., J. H. Taylor..... " "
Treas., Mitchell Joannes..... " "
Supt., J. P. Flatley..... " "
Wells, 11 tubular 8 & 20-in. 850 to 933 ft. deep; ½ mi. from center distribution; reservoir, 2,000,000 gal.; no purification.

Boilers, 3 Scotch marine 160-hp. ea. Reliance, one tubular 120-hp. Burns; hand stoking; pumps, 4-21,000,000 gal., 2 Snow & 2 Knowles; elec. motors, 150-hp. 440 v. 3 ph. 25 cys. Westg.; pumping direct & to standpipe (1911) steel.

Pipe, 48.25 mi. 4 to 30-in. c. i.; hyd. 417 R. D. W. & Chapman; valves, 463 Eddy; meters, 4760 Neptune; av. daily cons. 1,205,000 gal.; serv. con. 4964; ord. pres. 40 lb., fire pres. 100 lb.

Rates; all meter, 22c. 100 cu. ft. max., 14c. min.

HARTFORD, 2,982.

MUNICIPAL.

Supt., H. Parfrey.....Hartford

Wells, 3 artesian 6 & 10-in. 300 to 550 ft. deep; ¼ mi. from center distribution.

Pumps, 3-288,000 gal. triplex Goulds & centrifugal Ingersoll; elec. motors, 215-hp., one 20-hp. 2 ph. 60 cys. Ft. Wayne & Westg.; pumping to elev. tank, 60,000 gal. steel.

Hyd. 6, hose con. 3-in.; meters, 600, mostly Buffalo & Badger; av. daily cons. 225,000 gal.; serv. con. 625; ord. pres. 50 to 70 lb., fire pres. 70 lb.

HAYWARD, 3,741.

MUNICIPAL.

Supt., DeWitt Ramsdell.....Hayward

The city is installing an electric pumping station with supply from artesian wells.

HAZEL GREEN, 621.

MUNICIPAL ELECTRIC LIGHT & WATER WORKS.

Mgr., A. Altenburg.....Hazel Green

HILLSBORO, 804.

HILLSBORO WATERWORKS. (Privately owned.)

Owner & Supt., E. V. Warwick....Hillsboro

Wells, 8-in. 149 ft. deep; ½ mi from center distribution.

Pump, 1-318,000 gal. hor. duplex Platt 1913; pumping to elev. tank (1906) 40,000 gal. steel, Caldwell.

Pipe, 2 mi. 2 & 4-in. malleable iron; hyd. 14, hose con. 2¼-in. Kupferle; meters, none; av. daily cons. 12,000 gal.; serv. con. 160; ord. pres. 25 lb., fire pres. 100 lb.

Rates; flat, $5 year, closet $5.

HORICON, 1,881.

MUNICIPAL. Board of Public Works.

Mbr. J. M. Yorgey.....Horicon
" F. H. Clausen..... "
" Louis Last..... "
City Audr., Ed. C. Redfeld..... "
Supt., Robert Polzine..... "
Cons. Engr., A. M. Morgan....Chicago, Ill.

Wells, 2 tubular 12-in. 602 ft. deep; near center distribution; reservoir, 104,000 gal.; no purification.

Pumps, 2-4320,00 gal. ea. triplex Goulds driven by oil engines, 32-hp. F. M.; pumping direct & to standpipe (1912) iron.

Pipe, 6.6 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2¼-in. Rensselaer; valves, 45 r. h thd. Rensselaer; meters, 210 Hersey; av. daily cons. 40,000 gal.; serv. con. 210; ord. pres. 60 to 89 lb., fire pres. 60 to 125 lb.

Rates; all meter, min. charge $2 quarter 7,500 gal., 15c. 1000 gal. max., 12c. min.

INDEPENDENCE, 664.

MUNICIPAL.

Vil. Clerk, A. Garthus.....Independence
Comr., S. P. Cook..... "
" M. A. Lyga..... "
Vil. Clerk, Jacob Jackson..... "
Rngr. P'g. Sta., A. Gauroth... "

Wells, 4 tubular 6-in. 50 ft. deep; near center business section; reservoir, 52,000 gal.; no purification.

Pump, 1-576,000 gal. hor. duplex F. M. 1912 geared to oil engine 32-hp. F. M. 1912; pumping to reservoir.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 24, hose con. 2¼-in.; meters, 60 Pittsburgh; av. daily cons. 15,000 gal.; serv. con. 80; ord. pres. 75 to 100 lb., fire pres. same.

Rates; flat, $5 year, bath $2, closet $2; meter, 20c. 1000 gal. max., 10c. min.

IRON RIVER, 1,248.

IRON RIVER WATER, LIGHT & TELEPHONE CO.

Pres. & Mgr., T. F. MacMiller...Iron River
V. Pres., Mrs. Alvena MaMicller. " "
Sec. & Treas., Mrs. L. H. Calahan " "

Boiler, 200-hp. Cary; steam engine, 350-hp. Allis-C.

JANESVILLE, 13,894.

JANESVILLE WATER CO.

Pres., W. G. Marcy.....Janesville
Sec., F. H. Jackman..... "
Treas., C. S. Jackman..... "
Supt., W. W. Hyzer..... "
Engr. Pg. Sta., H. A. Guffey..... "

Well, 2 artesian 8-in. 1095 ft. deep & one open 11 ft. in diam.; near center distribution; reservoir, 800,000 gal.; no purification.

Boilers, 3 hor. tubular 125-hp. Battis; hand stoking; pumps, 2-2,000,000 gal. Blake; pumping direct & to standpipe (1887) iron.

Pipe, 25 mi. 4 to 16-in. c. i.; hyd. 308, hose con. 2¼-in. Coffin & Ludlow; valves, l. h. opening; av. daily cons. 1,165,000 gal.; serv. con. 5260; ord. pres. 73 lb., fire pres. 100 to 120 lb.

Rates; meter, min. charge $2.50 quarter, 35c. 1000 gal. max., 5c. min.

JEFFERSON, 2,582.

MUNICIPAL.

Supt., W. G. Mack.....Jefferson

Well, 100 ft. deep.

Boilers, 2 tubular 150-hp. Freeman; hand stoking; pumps, 2-500,000 gal. Platt; pumping to standpipe, steel.

Pipe, 7.4 mi. 4 to 12-in.; hyd. 56, hose con. 2¼-in. Ludlow & Eddy; meters, 404; av. daily cons. 78,000 gal.; serv. con. 420; ord. pres. 30 to 60 lb., fire pres. 115 lb.

Rates; meter, min. charge 75c. quarter, 12c. 100 cu. ft. max., 8c. min.

JUNEAU, 1,003.

MUNICIPAL. Commission of Public Works.
Pres., H. F. Binte.....Juneau
Pur. Agt., C. G. Schwalbach..... "
Comr., Chas. Weber..... "
" F. W. Gebhardt..... "

Well.

Rates; meter, min. charge $1.50 six mos. 6000 gal.

KAUKAUNA, 4,717.

MUNICIPAL.
Chmn. Comrs., J. Copper.....Kaukauna
Comr., C. E. Raught..... "
" J. J. Jansen..... "
" H. S. Cooke..... "
" M. D. Kurz..... "
Supt., W. M. Montgomery..... "

Wells, 3 artesian 8-in. 629 to 789 ft. deep; ½ mi. from center distribution; reservoir, 300,000 gal.; no purification.

Boiler hor. tubular 100-hp. 100 lb. Ft. Wayne 1898; hand stoking; pumps, 1-1,500,000 gal. hor. duplex comp. d. act. Deane 1898, 1-1,500,000 gal. hor d. act. Worth. 1914 driven by elec. motor, 150-hp. 2300 v. 3 ph. 60 cys. G. E. 1914; elec. energy from municipal plant; pumping to standpipe (1898) 76,000 gal.

Pipe, 10.6 mi. 4 to 14-in. c. i.; hyd. 102, hose con. 2¼-in. Eddy, Michigan & Galvin; valves, 70 r. h. opening Michigan; meters, 241 National, Neptune, Hersey & Badger; av. daily cons. 160,000 gal.; serv. con. 662; ord. pres. 40 to 73 lb., fire pres. 80 to 125 lb.

Rates; meter, min. charge $2.50 quarter, 22¼c. 100 cu. ft. max., 7c. min.

KENOSHA, 21,371.

MUNICIPAL.
Chmn. Comrs., Frank Grasser.....Kenosha
Comr., John Hegeman..... "
" John L. Milligan..... "
Comr. & Supt., B. C. Brennan..... "

Lake Michigan; 1000 ft. from center distribution; chemicals, hypochlorite of lime.

Boilers, 2 hor. tubular 125-hp. ea. 110 lb. Freeman 1894; pumps, 1-2,000,000 gal. hor. d. act. L-D-D. 1894, 1-4,000,000 gal. vert. cross comp. Barr 1901, 1-6,000,000 gal. hor. cross comp. Prescott 1910; pumping direct & elev. tank (1907) 250,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 46.8 mi. 1 to 14-in. c. & galv. i.; hyd. 300, hose con. 2¼-in. Eddy; meters, 3300 various; av. daily cons. 3,300,000 gal.; serv. con. 4400; ord. pres. 50 to 70 lb., fire pres. 90 to 110 lb.

Rates; flat, $2.50 six mo., bath $1.50, closet $1.50; meter, min. charge $2.50 six mo., 12c. 1000 gal. max., 4c. min.

KIEL, 1,244.

MUNICIPAL.
Vil. Clerk, Ferd. Steinhardt.....Kiel
Supt., F. Thiessen..... "
Engr. P'g. Sta., O. Christiansen..... Kiel

Well, 12-in. 485 ft. deep; pump driven by gasoline engine, 75-hp. Foos 1913 & 30-hp. Foos 1905 with gas producers, 2-100-hp. ea.; pumping to standpipe (1904) 50,000 gal.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 37, hose con. 2¼-in. Ludlow; valves, 19 r. h. opening Ludlow; meters, 180 Hersey; serv. con. 180; ord. pres. 45 to 90 lb., fire pres. same.

Rates; meter, min. charge $1.50 quarter 833 cu. ft., 18c. 100 cu. ft.

KILBOURN, 1,170.

MUNICIPAL.
Supt. & Mgr., D. G. Howey.....Kilbourn

Wells, 2 tubular 12-in. 400 ft. deep; one mi. from center distribution.

Pumps, 4-540,000 gal. duplex, 2 Keystone & 2 Advance, driven by elec. motors, 230-hp. & 250-hp. 2200 v. 3 ph. 25 cys. Allis-C.; pumping to reservoir, 60,000 gal. & standpipe (1905.).

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 33, hose con. 2¼-in. Kupferle; valves, 18 l. h. thd. Eddy; meters, 341, mostly Pittsburgh; av. daily cons. 120,000 gal.; serv. con. 325; ord. pres. 60 to 90 lb., fire pres. 90 to 135 lb.

Rates; meter, min. charge $1 quarter, 30c. 100 gal. max., 6c. min.

KINGSVILLE, 3,450.

TEXAS SOUTHERN ELECTRIC COMPANY.
Pres., W. A. Leland.....Victoria
V. Pres. & Pur. Agt.,
M. H. Merrill.....Boston, Mass.
Sec., T. B. Sweeny..... " "
Treas., R. L. Warner..... " "
Gen. Mgr., W. D. DuPte.....Victoria

Wells, 2 artesian 4 & 8-in. 750 ft. deep; settling basins, 450,000 gal.

Boilers, Scotch marine 100-hp. 110 lb. W. & W. 1909, Scotch marine 100-hp. 110 lb. W. & W. 1913; oil; pumps, 1-432,000 gal. hor. comp. d. act. Union 1909, 1-504,000 gal. hor. centrifugal American 1909 d. con. to elec. motor, 20-hp. 220 v. 3 ph. 60 cys. Western 1910, 2-432,000 gal. ea. hor. centrifugal De Laval 1910 d. con. to elec. motor 25-hp. 220 v. 3 ph. 60 cys. Western 1910 & steam engine DeLaval 1910; air compressors, Ingersoll-Rand 1910 & Gardner 1914 driven by elec. motor, 5-hp. 220 v. 3 ph. 60 cys. Western 1910, oil engine, 2 200 & 400-hp. De La Vergne 1911-13; pumping to elev. tank (1908) 50,000 gal. steel.

Pipe, 75 mi. 2 to 8-in. c. i.; hyd. 32, hose con. 2¼-in.; valves, 9 r. h. opening Crane; meters, 300 various; av. daily cons. 300,000 gal.; serv. con. 700; ord. pres. 40 to 45 lb., fire pres. 40 to 75 lb.

Rates; flat, $1.50 mo.; meter, min. charge $1 mo. 2000 gal., 50c. 1000 gal. max., 25c. min.

LA CROSSE, 30,417.

MUNICIPAL.
Pres. Comrs., Fred Schnell.....La Crosse
Comr., John Vollmar..... " "

Comr., George Falk.....La Crosse
Sec., Paul W. Mahoney..... " "
Cons. Engrs., Alvord & Burdick, Hartford Bldg., Chicago, Ill.
Engr. P'g. Sta., Frank Kimball...La Crosse

Wells, 20 tubular 10-in. 120 ft. deep; 2 mi. from center distribution; reservoir, 1,000,000 gal.; no purification.

Boilers, 3 Scotch marine 187-hp.; mech. stoking, Jones; pumps, 1-1,000,000 gal. tri. exp. Holly, 1-8,000,000 gal. cross comp. Allis-C., 1-4,000,000 gal. double act. Blake; elec. motor, 125 kw. 440 v. 3 ph. 60 cys. Westg.; pumping to reservoir, 5,300,000 gal.

Pipe, 56 mi. 4 to 30-in. c. i.; hyd. 525; meters, 1600, mostly Worth.; av. daily cons. 3,500,000 gal.; serv. con. 4720; ord. pres. 90 lb., fire pres. same.

Rates; flat, $5 year, bath $2, closet $3; meter, min. charge $2.50 six mo., 15c. 100 cu. ft. max., 3c. min.

LADYSMITH, 2,352.

MUNICIPAL.

Mayor, A. C. Thompson.....Ladysmith
Comr., R. H. Bemis..... "
" H. A. Dimock..... "
Des. Engr., W. D. Morgan..... "
Engr. P'g. Sta., A. Borie..... "

Artesian well, 8 ft. diam. 70 ft. deep; ¼ mi. from center business section.

Pump, 1-750,000 gal. hor. centrifugal Allis-C. 1915 d. con. to elec. motor, 45-hp. 2200 v. 3 ph. 60 cys. Allis-C.; elec. energy from Ladysmith Lighting Co.; pumping to elev. tank (1914) 130,000 gal. steel, De Moines Bridge & Iron Co.

Pipe, 8 mi. 6 to 10-in. c. i. & steel; meters, none; av. daily cons. 90,000 gal.; ord. pres. 68 lb.

LAKE GENEVA, 3,079.

MUNICIPAL GAS, WATER & LIGHT PLANT.

Pres. Comrs., H. A. Burdick...Lake Geneva
Sec., E. F. Dunn..... " "
City Treas., A. E. Williams... " "
Mayor, S. C. Ford..... " "
Supt., Wm. O'Neill..... " "

Wells, 3 artesian 6 & 12-in. 186 to 1123 ft. deep; ½ mi. from center distribution; reservoir, 2-276,000 gal.; no purification.

Boilers, 2 return tubular 100 & 125-hp. Erie; hand stoking; pumps, 1-576,000 gal. deep well, 1-2,000,000 gal. Platt, 1-1,000,000 gal. Platt; air compressor, 1-400 cu. ft. Gardner; pumping to elev. tank (1890) wood.

Pipe, 7.5 mi. 4 to 10-in. c. i.; hyd. 84, hose con. 2½-in. R. D. W. & American; valves, 28 r. & l. h. thd. Clow; meters, 358 Neptune, Badger, Worth. & Pittsburgh; av. daily cons. 137,000 gal.; serv. con. 337; ord. pres. 70 lb., fire pres. 70 to 100 lb.

Rates; flat, $10 year; meter, 35c. 1000 gal. max., 12c. min.

LAKE MILLS, 1,672.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.

Pres. Bd., S. B. Houst.....Lake Mills
V. Pres., H. J. Sepz.....Lake Mills
Sec., E. H. Weber..... " "
Supt., B. C. Engsberg..... " "

Wells, 285 ft. deep; near center distribution.

Pump driven by elec. motor, 25 kw. 110 v. 2 ph. 60 cys. Western; pumping to elev. tank, 62,000 gal. concrete & wood.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 54, hose con. 2½-in. Eddy & Chicago; valves, 29 l. h. thd. Eddy; meters, 195 Pittsburgh; av. daily cons. 52,000 gal.; serv. con. 200; ord. pres. 48 to 60 lb., fire pres. 60 to 70 lb.

Rates; meter, min. charge $6 year, 25c. 1000 gal. max., 8c. min.

LANCASTER, 2,329.

MUNICIPAL.

Comr., W. E. Lathrop.....Lancaster
" W. P. Richardson..... "
" W. A. Austin..... "
City Clerk, John M. Stone..... "
City Treas., F. B. Callis..... "
Supt. & Engr. P'g. Sta., John H. Stephens..... "

Springs; 2.5 mi. from center distribution; no purification.

Boilers, 2 tubular 80-hp. ea. Davis; hand stoking; pumps, 2-750,000 gal. ea. Deane; pumping to standpipe (1896) steel.

Pipe, 8.8 mi. 4 to 12-in. c. i.; hyd. 86, hose con. 2½-in. R. D. W.; meters, 50 Buffalo & Neptune; av. daily cons. 105,000 gal.; ord. pres. 25 to 38 lb., fire pres. 35 to 80 lb.

Rates; flat, $4 year, bath $2, closet $2.50; meter, 40c. 1000 gal.

LINDEN, 580.

MUNICIPAL.

Chmn. Comrs., J. P. Williams.....Linden
Comr., C. W. Singer..... "
" A. J. Hillary..... "
" E. J. Trugen..... "
Supt. & Engr. P'g. Sta., Jos. Poad... "

Well, 8-in. 580 ft. deep; near center distribution; no purification.

Pump, 1-152,000 gal. hor. single d. act. National 1908 driven by elec. motor, 25-hp. 220 v. 60 cys. G. E. 1914; gasoline engine, 20-hp. F. M. 1908; elec. energy from Mineral Point Public Service Co.; pumping to elev. tank (1908) 40,000 gal. wood.

Hyd. 8, hose con. 2½-in. Kupferle; valves, 5 l. h. opening; serv. con. 46; ord. pres. 40 to 50 lb., fire pres. same.

Rates; flat, $6 year.

LODI, 1,044.

MUNICIPAL.

Vil. Clerk, J. Collin.....Lodi
Supt., A. H. Hinds..... "

Artesian wells, 8-in. & one open 16 ft. diam. 22 ft. deep; ¼ mi. from center business section.

Boilers, return tubular 50-hp. 70 lb. Milwaukee, return tubular 150-hp. 120 lb. hand stoking; pumps, 1-576,000 gal. hor. duplex. Worth., one F. M. 1914; pumping to reservoir.

Hyd. 30; ord. pres. 80 lb., fire pres. same.

MADISON, 23,531.

MUNICIPAL.

Pres., J. C. Schubert.....Madison
Sec., O. S. Narsman..... "
Comr., J. D. Haynes..... "
" J. C. White..... "
" A. H. Kayser..... "
" C. W. Constantine..... "
Supt., E. E. Parker..... "
Engr. P'g. Sta., Peter Gauer..... "

Wells, 12 artesian 5 & 16-in. 750 ft. deep; near center distribution; reservoirs, 2-1,-200,000 gal.; no purification.

Boilers, 2 water-tube 390-hp. Standard; mechanical stoking, Stone; boilers, 1-3,000,-000 gal. Allis-C., 1-3,000,000 gal. Prescott, 1-1,500,000 gal. Prescott; elec. motors, 4-35 kw. 550 v. d. c. Northern; pumping direct & to standpipe (1890) concrete & masonry.

Pipe, 76 mi. 4 to 16-in. c. i.; hyd. 480, hose con. 2¼-in. R. D. W.; valves, 838 l. h. thd. Rensselaer & Ludlow; meters, 5773 National Hersey, Worth., Pittsburgh & Neptune; av. daily cons. 2,207,000 gal.; serv. con. 5773; ord. pres. 80 to 86 lb., fire pres. 85 to 120 lb.

Rates; flat, $2.50 six mo.; meter, min. charge $1.75, 6c. 100 cu. ft.

MARINETTE, 14,610.

CITY WATER COMPANY OF MARINETTE. (Controlled by American Waterworks & Elec. Co., 50 Broad St., New York, N. Y.)

Pres., G. E. Hoffmaster...New York, N. Y.
V. Pres., S. R. Brough.....Marinette
Sec., J. C. Adams.....New York, N. Y.
Treas., B. C. Hovis..... " " " "

Menominee River & Green Bay & artesian well, 6-in. 765 ft. deep; settling basin, 40 ft. in diam. 20 ft. deep; mech. filters, 3,000,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Boilers, 3 return tubular 240-hp. 2 Brownell & one McNeil; hand stoking; pumps, 2-2,000,000 gal. Deane, 1-3,000,000 gal. Worth., 1-4,000,000 gal. Worth.; pumping direct & storage tank, 2 steel.

Pipe, 24.75 mi. 4 to 12-in. c. i.; hyd. 264; meters, 122 various; av. daily cons. 1,355,000 gal.; serv. con. 3099; ord. pres. 35 to 45 lb., fire pres. 100 to 110 lb.

MARSHFIELD, 5,783.

MUNICIPAL WATER, ELECTRIC LIGHT & POWER PLANT.

Supt., T. M. Young.....Marshfield
Engr. P'g. Sta., Otto Meyer..... "

Wells, 21 tubular 5-in. 63 ft. deep; one mi. from center distribution; reservoir, 13,000,000 gal.

Pumps, 2-1,000,000 gal. ea. Allis-C. d. con. to elec. motors, 2 60 kw. ea. 2200 v. 3 ph. 60 cys. Allis-C.; pumping direct & to standpipe (1892) 1,000,000 gal. steel.

Pipe, 40 mi. 4 to 12-in. c. i.; hyd. 115, hose con. 2¼-in. Eddy; valves, 69 r. h. thd. Eddy; meters, 450 various; av. daily cons. 800,000 gal.; serv. con. 550; ord. pres. 45 to 60 lb., fire pres. 100 to 125 lb.

Rates; flat, $10 year; meter, 35c. 1000 gal. max., 10c. min.

MAUSTON, 1,701.

MUNICIPAL.

Supt., C. J. Blass.....Mauston
Engr. P'g. Sta., W. F. Backhouse... "

Wells, 5 tubular 6 & 8-in. 150 to 250 ft. deep; near center distribution; no purification.

Boiler, return tubular 70-hp. F. M.; hand stoking; pumps, 1-720,000 gal. F. M.; pumping direct & to reservoir, 240,000 gal.

Pipe, 3.5 mi. 4 to 12-in. c. i.; hyd. 43, hose con. 2¼-in. Waterous; valves, 10 l. h. thd. Mueller; meters, 210 National; av. daily cons. 150,000 gal.; serv. con. 255; ord. pres. 80 lb., fire pres. same.

Rates; flat, min. $5 year; meter, min. charge $5 year, 20c. 1000 gal.

MAYVILLE, 2,282.

MUNICIPAL.

Pres. Comrs., C. Garling.....Mayville
Supt., E. Sauerhering..... "

Wells, 2 tubular 6 & 10-in. 600 & 800 ft. deep; settling basin, 30,000 gal.; coagulating basin, 60,000 gal.

Pumps, 1-432,000 gal. vert. duplex Keystone 1913 d. con. to elec. motor, 1-432,000 gal. vert. triplex Goulds 1908 belted to elec. motor; air compressor, Ingersoll-Rand 1909 driven by elec. motor; elec. motors, 3 20-hp. 220 v. 3 ph. 60 cys. Allis-C. 1910; elec. energy from Northwestern Iron Co.; pumping to elev. tank (1908) 50,000 gal. steel, Des Moines Bridge & Iron Co.

Pipe, 5.5 mi. 4 to 8-in. c. i.; hyd. 42, hose con. 3-in. R. D. W. & Eddy; valves, 25 r. h. thd. Eddy; meters, 292 Badger; av. daily 90,000 gal. 65%; serv. con. 285; ord. pres. 75 to 82 lb., fire pres. same.

Rates; meter, min. charge $1.25 quarter 599 cu. ft. max., 30c. 1000 gal. max., 15c. min.

MAZOMANIE, 917.

MUNICIPAL.

Chmn. Comrs., P. E. Reeve....Mazomanie
Comr., August Martin..... "
" N. C. Kuch..... "
Vil. Clerk, H. L. Swan..... "

Wells, 10 tubular 3-in. 25 ft. deep; near center distribution.

Boilers, 2 tubular 75 & 125 hp. 125 lb. 1912 & 1894; hand stoking; pumps, 1-240,-000 gal. hor. duplex d. act. Smedley 1900; 1-168,000 gal. hor. d. act. Clow 1904 d. con. to elec. motor, 25-hp. 220 v. 3 ph. 60 cys. Clow 1914; steam engine, 50-hp. Corliss filter 1900; pumping to reservoir, 175,-000 gal.

Pipe, 3 mi. 4 to 6-in. c. i.; hyd. 16, hose con. 2¼-in. Eddy & Kupferle; meters, 25 Neptune; av. daily cons. 30,000 gal. 100%; serv. con. 40; ord. pres. 75 to 85 lb., fire pres. same.

Rates; flat, $5 year; meter, min. charge $1.25 quarter, 40c. 1000 gal.

MEDFORD, 1,946.
MUNICIPAL.
Supt., R. Nastrum.....Medford

MELLEN, 1,833.
PEOPLES WATER, LIGHT & POWER CO.
Pres., A. J. Sullivan.....Mellen
V. Pres., Robt. Johnson..... "
Treas., C. P. Peck..... "
Sec. & Gen. Mgr., A. E. Logeman.... "
Cons. Engr., W. G. Kirchoffer.....Madison
Springs & impounding reservoir, 1,500,000 gal.; 2.5 mi. from center distribution; slow sand filter, 150,000 gal.; chemicals, none.
Gravity distribution from reservoir (1911) 65,000 gal.
Pipe, 3.25 mi. 4 to 12-in. c. i.; hyd. 22, hose con. 2¼-in. Rensselaer; valves, 20 l. h. opening Rensselaer; meters, 44 Pittsburgh; av. daily cons. 150,000 gal.; serv. con. 253; ord. pres. 45 to 75 lb., fire pres. 75 to 120 lb.
Rates; meter, min. charge 75c. mo., 30c. 1000 gal. max., 5c. min.

MENASHA, 6,081.
MUNICIPAL.
Mayor, W. G. Remwell.....Menasha
Chmn. Comrs., Herman Vetter.... "
City Clerk, S. S. Little..... "
Fox River at end of Lake Winnebago; at center distribution.
Pumps, 2-1,250,000 gal. ea. Goulds driven by oil engines, two 75-hp. Diesel & elec. motor, 40-hp.; pumping to standpipe (1905).
Pipe, 13 mi. 4 to 30-in. c. i.; hyd. 102, hose con. 2¼-in. Ludlow; valves, Ludlow; meters, 610 Pittsburgh; av. daily cons. 400,000 gal.; serv. con. 610; ord. pres. 50 to 65 lb., fire pres. 50 to 110 lb.
Rates; meter, min. charge $5 year, 15c. 1000 gal., 6c. min.

MENOMONIE, 5,036.
MENOMONIE WATER WORKS CO.
Supt., H. M. Place.....Menomonie
Engr. P'g. Sta., Fred Volker.... "
Red Cedar River & Lake Menomonie & wells, 2 artesian 12-in. 355 to 376 ft. deep; reservoir, 50,000 gal.
Boilers, 2 Scotch marine 75-hp.; hand stoking; pumps, 2-1,440,000 gal.; elec. motor 100-hp. 2200 v. a. d.; pumping to standpipe (1886) steel.
Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 121, hose con. 2-in. Ludlow; meters, 300 Pittsburgh & Neptune; av. daily cons. 269,000 gal.; serv. con. 698; ord. pres. 87 to 98 lb., fire pres. 110 to 120 lb.

MERRILL, 8,689.
CITY WATERWORKS CO. (Controlled by American Waterworks & Electric Company, 50 Broad St., New York, N. Y.)
Pres., G. E. Hoffmaster...New York, N. Y.
V. Pres. & Supt., H. W. Schofield....Merrill
Sec., F. R. Berry.....New York, N. Y.
Treas., J. C. Adams..... " " " "
Prairie River & wells, 17 tubular 6-in. 23 ft. deep; settling tank, 40 ft. in diam. 20 ft. deep; mech. filters, 1,500,000 gal.; chemicals, sulphate of alumina.
Boilers, 3 hor. tubular 300-hp. Penn; hand stoking; pumps, 1-2,000,000 gal. Prescott, 1-1,500,000 gal. L-D-G, 2-1,500,000 gal. ea. Deane; pumping direct & to storage tank, 290,000 gal. steel.
Pipe, 14.2 mi. 4 to 12-in. c. i.; hyd. 181; meters, 45 various. av. daily cons. 967,000 gal.; serv. con. 1266; ord. pres. 40 to 55 lb., fire pres. 80 to 95 lb.

MIDDLETON, 679.
MUNICIPAL.
Vil. Pres., W. F. Pierstoff.....Middleton
Supt., Louis Watzke..... "
Well, 10-in. 200 ft. deep; reservoir, 87,000 gal.; no purification.
Pump driven by gasoline engine, 25-hp. F. M. 1907; pumping to reservoir, above.
Pipe, 5.5 mi. 4 to 8-in. c. i.; hyd. 20; valves, 18; meters, 102 National & Badger; av. daily cons. 15,200 gal.; serv. con. 120; ord. pres. 41 lb.
Rates; meter, min. charge $5 year 1800 cu. ft., 27c. 1000 cu. ft. max., 20c. min.

MILTON, 833.
MILTON WATER, LIGHT & POWER CO.
Pres. & Mgr., J. H. Burdick.....Milton
V. Pres., S. Burdick..... "
Sec., G. E. Crosley..... "
Treas., T. North..... "
Engr. P'g. Sta., A. L. Burdick..... "
Oil engine, 45-hp. Munzie.

MILWAUKEE, 373,857.
MUNICIPAL.
Comr. Pub. Wks.,
Fred G. Simmons.....Milwaukee
Registrar, B. F. Cooke..... "
Sugt., Henry P. Bohmann..... "
City Engr., Geo. F. Staal..... "
Engr. P'g. Sta., Thomas McMillan "
Chemist, Arthur Kienth..... "
Lake Michigan; 4 mi. from center distribution; chemical, hypochlorite of lime.
Boilers, 6 tubular 115-hp. Downey-Kruse, 3 tubular 150-hp. ea. Bowers, 3 tubular 150-hp. Industrial; hand stoking; pumps, 6-94,000,000 gal., 2 Thomson & 4 Ellis Repumping Sta.; boilers, 4 tubular 115-hp. ea. 2 Davis & 2 Milwaukee; hand stoking; pumps, 4-25,000,000 gal. Allis-C.; pumping direct, to reservoir, 21,000,000 gal. & standpipe (1873, 1886) iron.
Pipe, 505 mi. 4 to over 30-in. c. i.; hyd. 3420, hose con. 2¼ & 4¼-in. R. D. W.; valves, 3737 r. h. thd. Hoffman; meters, 59,233 various; av. daily cons. 47,927,000 gal.; serv. con. 59,603; ord. pres. 15 to 75 lb., fire pres. by means of fire engines.
Rates; meter, 6c. 1000 gal.

MONROE, 4,410.
MUNICIPAL.
Pres. Comrs., G. T. Hodges.....Monroe
Sec., A. F. Rote..... "

Supt., M. T. Gettings.....Monroe
Engr. P'g. Sta., Frank Gasser..... "

Wells, 2 tubular 6 & 12-in. 1000 ft. deep; ¼ mi. from center distribution; reservoir, 100,000 gal.

Boilers, 2 hor. tubular 150-hp. Kewanee; hand stoking; pumps, 2-2,500,000 gal. Platt & 2 Deane; pumping to elev. tank, 110,000 gal. steel.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 110, hose con. 2¼-in. R. D. W.; valves, 26 r. h. thd. Eddy; meters, 670 National, Neptune, Thomson, Hersey & Pittsburgh; av. daily cons. 260,000 gal.; serv. con. 650; ord. pres. 65 to 80 lb., fire pres. 80 to 140 lb.

Rates; all meter, 25c. 100 cu. ft. max., 5c. min.

NEENAH, 5,734.

MUNICIPAL.

Supt., J. P. Gasperson.....Neenah

NEILLSVILLE, 1,957.

MUNICIPAL.

Supt., Peter Stichler.....Neillsville

NEW GLARUS, 708.

MUNICIPAL.

Pres. Trustees, Geo. Pierce.....New Glarus
Trustee, Fred Strieff..... " "
" Peter Hoesly..... " "
Supt., Fred Ott..... " "
Engr. P'g. Sta., Geo. Spaulding. " "

Well, 10-in. 180 ft. deep; near center distribution.

Pump driven by elec. motor, 20-hp. 220 v. d. c. Ft. Wayne; pumping to reservoir, 50,000 gal.

Pipe, 4 to 8-in.; hyd. 25, hose con. 2¼-in. Rensselaer; meters, 120 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 80 lb., fire pres. 85 lb.

Pipe, 4 to 8-in.; hyd. 25, hose don. 2¼-in. Rensselaer; meters, 120 Pittsburgh; av. daily cons. 50,000 gal.; serv. con. 150; ord. pres. 80 lb., fire pres. 85 lb.

Rates; meter, min. charge $1.25 for 2000 gal., 30c. 1000 gal. max., 15c. min.

NEW LISBON, 1,174.

MUNICIPAL ELECTRIC LIGHT & WATER WORKS.

Mayor, C. A. Leicht.....New Lisbon
Chmn. Comrs., L. Nelson..... " "
Clerk, W. S. Sargent..... " "
Treas., T. Hanson..... " "
Supt., T. Wahl..... " "

Gas engine, 75-hp. National; gas producer, 80-hp.

NEW LONDON, 3,383.

Mayor, C. A. Baker.....New London
Clerk, C. Thompson..... " "
Treas., J. F. Croak..... " "
Supt., O. H. Tridnot..... " "

Boilers, 2 50-hp. Frost; steam engine, 2 50-hp.

NEW RICHMOND, 1,988.

MUNICIPAL LIGHT & WATER WORKS.

Mgr., Martin Lynch.....New Richmond
Supt., Elvin Halverson..... " "

Wells, 5 tubular 5 & 10-in. 40 ft. deep; near center business section; no purification.

Boilers, hor. tubular 100-hp. F. M.; hand stoking; 2 Platt, belted to elec. motor, 30-hp. 200 v. 2 ph. 60 cys. Westg.; pumping to standpipe, 50,000 gal. steel.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 71, hose con. 2¼-in. Waterous; valves, 23 r. & l. h. thd. Crane; meters, 300 Pittsburgh; av. daily cons. 162,000 gal.; serv. con. 326; ord. pres. 42 to 62 lb., fire pres. 42 to 90 lb.

Rates; meter, min. charge $1.25 3000 gal., 15c. 1000 gal. max., 8c. min.

NORTH FOND DU LAC, 1,960.

SAND ROCK WATER CO. Office, 63 S. Main St., Fond du Lac.

Pres. & Gen. Mgr., S. D. Wyatt, Fond du Lac
V. Pres., H. R. Potter..... " " "
Sec., T. H. Marile..... " " "
Sec., M. D. Simmons..... " " "
Supt., R. M. Porter..... " " "

Artesian wells, 8-in. 400 ft.; near center business section; reservoirs, 2-300,000 gal.

Pumps driven by gasoline engine, 2 30-hp. F. M. 1901; pumping to reservoirs above & standpipe (1901) 50,000 gal.

Pipe, 3 mi. 4 to 6-in. c. i.; hyd. 30, hose con. 2¼-in.; valves, 10; meters, 200; serv. con. 250; ord. pres. 30 lb., fire pres. 90 lb.

Rates; flat, $1.50 quarter, bath $1, closet $1.25; meter, 40c. 1000 gal. max., 20c. min.

OCONTO, 5,629.

OCONTO CITY WATER SUPPLY CO.

Pres., Geo. Beyer.....Oconto
Treas., S. Andrews.....Norway, Me.
Sec. & Supt., S. W. Ford.....Oconto

OCONTO FALLS, 1,427.

MUNICIPAL.

Pres. Comrs., P. H. Sharp.....Oconto Falls
Comr., Chas. Wach..... " "
" J. M. Sladkry..... " "
" W. J. Munsert..... " "
Supt., Emmett Johnson..... " "

Well, 10-in. 180 ft. deep; reservoir, 27,000 gal.

Boilers, 2 hor. tubular 140-hp. Menomonie & Platt; hand stoking; pump, one Platt; pumping direct.

Pipe, 2 mi. 4 to 12-in.; hyd. 18; hose con. 2¼-in. Rensselaer; valves, 5 r. h. thd.; meters, 4 Badger, Neptune & Buffalo; av. daily cons. 10,000 gal.; serv. con. 54; ord. pres. 45 to 60 lb., fire pres. 100 lb.

Rates; flat, 50c. mo., bath 25c., closet 25c.; meter, min. charge $1.50 quarter 8000 gal., 12c. 1000 gal. max., 8c. min.

ONALASKA, *1,200.

MUNICIPAL.

Mayor, E. F. Shane.....Onalaska
Comr., W. I. Berg..... "
" E. Comeau..... "
" J. L. Sowle..... "

Engr. P'g. Sta., B. F. Collins.....Onalaska

Wells 2 artesian 8-in. 159 & 170 ft. deep; ¼ mi. from center distribution; no purification.

Boiler, tubular 50-hp. Springfield; hand stoking; pumps, 2-1,500,000 gal. L-D-G; pumping to standpipe (1894) iron.

Pipe, 3 mi. 4 to 12-in. c. i.; hyd. 23, hose con. 2¼ in. R. D. W.; meters, 84 Pittsburgh; av. daily cons. 23,000 gal.; serv. con. 192; ord. pres. 60 to 75 lb., fire pres. same.

Rates; flat, $5 year, bath $2, closet $3; meter, min. charge $2.50 six mo., 15c. 100 cu. ft. max., 3c. min.

PARK FALLS, 1,972.

MUNICIPAL.

Supt., James Esterl.....Park Falls
Clerk, J. B. Saunders..... " "

Flambeau River; 1000 ft. from center distribution; no purification.

Boilers, return tubular 80-hp.; hand stoking; pumps, 1-1,400,000 gal. Canton; pumping to elev. tank (1908) wood.

Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 19, hose con. 2¼-in. Kupferle; meters, 75 Badger; av. daily cons. 8,000, gal.; serv. con. 75; ord. pres. 50 to 100 lb., fire pres. 75 to 125 lb.

PHILLIPS, 1,498.

PHILLIPS LIGHT, WATER, HEAT & POWER CO.

Pres., B. Kneeland.....Phillips
V. Pres. & Mgr., P. McLurg..... "

Boilers, four 50-hp. Erie; steam engine, 4 50-hp. Allis-C.

PLATTEVILLE, 4,452.

MUNICIPAL.

Mayor, A. W. Hooser.....Platteville
Chmn. Comrs., Fred Krog..... "
Comr., J. H. Steinhoff..... "
" James Harms..... "
" Joseph Mitchell..... "
Supt., J. F. Marshall..... "
Des. Engr., Henry Kleinhammer. "
Engrs. P'g. Sta.,
Fred Jansen..... "
Henry King..... "
Chemist, Harry Robinson..... "

Wells, 2 tubular 6 & 8-in. 1002 & 1741 ft. deep; ¾ mi. from center distribution; reservoirs, 2-40,000 gal. ea.; no purification.

Boilers, 2 tubular 120-hp. ea. Marshall & Milwaukee; hand stoking; pumps, 1-750,000 gal. F. M.; 1-875,000 gal. F. M.; elec. motors 220 v. d. c. G. E.; air compressor, Ingersoll-Rand; pumping to standpipe (1895) wood.

Pipe, 14.5 mi. 4 to 10-in. c. i.; hyd. 151, hose con. 2¼-in. R. D. W. & Rensselaer; valves, 98 r. h. thd. Clow; meters, 855 National; av. daily cons. 130,000 gal.; serv. con. 997; ord. pres. 38 to 80 lb., fire pres. 90 to 100 lb.

Rates; flat, $5 year, bath $1, closet $2; meter, 30c. 1000 gal. max., 10c. min.; min. charge $4 year.

PORTAGE, 5,441.

MUNICIPAL.

Mayor, M. J Downey.....Portage
Comr., F. F. Goss..... "
" John L. Standenmeyer..... "
Supt., Geo. E. James..... "
Engr. P'g. Sta., James Lyons..... "

Wisconsin River & wells, 2-24 x 30 ft. & 1-24 x 24 ft. 15 ft. deep; 1.5 mi. from center distribution; sponge filters.

Boilers, 2 hor. 150-hp. ea. Erie; hand stoking; pumps, 2-2,500,000 gal. Worth.; pumping to standpipe (1887) 270,000 gal. steel.

Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 106, hose con. 2¼-in. Ludlow; valves, 157 r. h. thd. Ludlow; meters, 18 Hersey; av. daily cons. 600,000 gal.; serv. con. 1100; ord. pres. 50 to 65 lb., fire pres. 100 lb.

PLYMOUTH, 3,094.

MUNICIPAL WATER, LIGHT & POWER PLANT.

Pres. & Mgr., W. Thurman.....Plymouth
Comr., J. S. Goeldzer..... "
Sec., Chas. Boquartz..... "
Treas., B. Kedler..... "
Engr. P'g. Sta., C. J. Douglas.... "

Boiler, 300-hp.; steam engine.

PORT WASHINGTON, 3,792.

MUNICIPAL.

City Clerk, O. Wilke.....Port Washington

PRAIRIE DU SAC, 699.

MUNICIPAL.

Supt., Wm. Johnson.....Prairie du Sac
Cons. Engrs., Mead & Seastone....Madison
Vil. Clerk, G. E. Cook.....Prairie du Sac

Well, 12-ft. in diam. 25 ft. deep.

Pumps, 1-330,000 gal. driven by gasoline engine, 35-hp.; pumping to elev. tank, 30,000 gal. steel.

Pipe, 4 mi. 4 to 12-in. c. i.; hyd. 29, hose con. 2¼-in. Eddy; meters, none; serv. con. 50; ord. pres. 75 lb.

Rates; flat, $5 year.

RACINE, 28,002.

THE RACINE WATER CO. (Controlled by American Water Works & Electric Company, 50 Broad St., New York, N. Y.)

Pres., G. E. Hoffmaster...New York, N. Y.
V. Pres. & Supt., F. M. McElroy....Racine
Sec., J. C. Adams.....New York, N. Y.
Treas., B. C. Hovis..... " " "

Lake Michigan; chemical, hypochlorite of lime.

Boilers, 3 water-tube 231-hp. Freeman; hand stoking; pumps, 1-4,000,000 gal. vert. Allis, 1-2,250,000 gal. hor. Blake, 1-3,000,000 gal. hor. Worth., 1-5,000,000 gal. hor. Prescott, 1-10,000,000 gal. screw Allis; pumping direct & to standpipe (1887) brick & steel.

Pipe, 77.9 mi. 4 to 30-in. c. i.; hyd. 698 various; meters, 6500 various; av. daily cons. 3,463,000 gal.; serv. con. 8966; ord. pres. 60 to 80 lb., fire pres. 100 to 120 lb.

RANDOLPH, 937.
MUNICIPAL.
City Clerk, J. O. Jones.....Randolph
Well, 300 ft. deep; no purification.
Boilers, 2 hor. tubular 100-hp. Frost & Ames; hand stoking, pumps, 2-240,000 gal.; pumping to elev. tank, 75,000 gal. steel.
Pipe, 1.5 mi. 4 to 12-in. c. i.; hyd. 25, hose con. 2¼-in. Rensselaer; meters, 50 Hersey; serv. con. 50; ord. pres. 70 lb., fire pres. same.

REEDSBURG, 2,615.
MUNICIPAL LIGHT & WATER COMMISSION.
Chmn., C. Borning.....Reedsburg
Comr., E. Pape..... "
" E. Sehewe..... "
City Clerk, W. H. Durken..... "
Supt., O. W. Burkett..... "
Engr. P'g. Sta., James Malady.... "
Wells, 4 artesian 6 & 8-in. 180 to 250 ft. deep; near center business section; reservoir.
Boilers, 2 tubular 150-hp. ea. 120 lb. Frost 1909; hand stoking; 1-600,000 gal. hor. duplex d. act. Worth., 1-650,000 gal. vert. centrifugal Goulds d. con. to elec. motor 25-hp. 220 v. 3 ph. 60 cys. Ft. Wayne; steam engines, 100 & 150-hp. Corliss; elec. motors, 100 ; 150 kw. 2300 v. 3 ph. 60 cys. Ft. Wayne; pumping to standpipe, 63,000 gal.
Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 52, hose con. 2¼-in.; valves, 35 r. h. opening; meters, 550; av. daily cons. 300,000 gal. 70%; serv. con. 625; ord. pres. 60 to 70 lb., fire pres. 60 to 100 lb.
Rates; meter, min. charge $6 year 20,000 gal., 25c. 10,000 gal. max., 7c. min.

RHINELANDER, 5,637.
MUNICIPAL.
Supt., A. Sutton.....Rhinelander

RICHLAND CENTER, 2,652.
MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Mayor, Dr. D. E. Smith...Richland Center
Comr., H. O. Kidd..... " "
" Joe Hansbery..... " "
" A. D. German..... " "
Vil. Clerk, Reuben Sutton.. " "
Supt., R. H. Strang..... " "
Artesian well, 12-in. 662 ft. deep; near center distribution.
Boilers, 2 tubular 100-hp. 135 lb. Kewanee 1904, one tubular 175-hp. 135 lb. Brownell 1910; pumps, 1-720,000 gal. hor. comp. d. act. F. M. 1893, 1-720,000 gal. vert. triplex Goulds 1907 belted to elec. motor, 25-hp. 220 v. 3 ph. 60 cys. G. E. 1913; pumping to reservoir, 120,000 gal.
Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 72, hose con. 2¼-in. R. D. W.; valves, 35 l. h. opening Eddy; meters, 300 various; av. daily cons. 270,000 gal. 70%; serv. con. 614; ord. pres. 67 to 73 lb.
Rates; flat, $2.50 six mo., bath 50c. closet $1; meter, min. charge $2 six mo. 10,000 gal., 20c. 1000 gal. max., 15c. min.

RIPON, 3,739.
RIPON LIGHT & WATER CO.
Pres., C. C. Haseltine.....Ripon
V. Pres., J. W. Wright..... "
Sec., Treas. & Supt.,
W. E. Haseltine..... "
Engr. P'g. Sta., Albert Guenther..... "
Wells, 3 open 25 to 66 ft. in diam. 20 ft. deep; infiltration gallery 4 x 4 ft. 100 ft. long; no purification.
Boilers, 2 hor. tubular 150-hp. Battis; hand stoking; pumps, 2-1,500,000 gal. ea. Gordon; pumping to standpipe (1890) steel.
Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 107, hose con. 2½-in. Ludlow; valves, 51 l. h. opening Ludlow; meters, 138 mostly National; av. daily cons. 293,000 gal.; serv. con. 762; ord. pres. 25 to 50 lb., fire pres. 80 to 120 lb.
Rates; flat, $5.50 year, bath $2.50, closet $3.50; meter, min. charge $8 year, 25c. 100 gal. max., 10c. min.

RIVER FALLS, 1,991.
MUNICIPAL.
Mayor, A. Styles.....River Falls
City Clerk, A. P. Weld..... " "
Supt., E. E. Buck..... " "
Engr. P'g. Sta., A. Kenter..... " "
Wells, 3 artesian 8-in. 580 to 628 ft. deep; reservoir, 200,000 gal.; no purification.
Pumps, 2-300,000 gal. vert. triplex belted to elec. motor, G. E. 1908 & oil engine, 20-ph. F. M. 1914; pumping to reservoir above.
Pipe, 15 mi. 4 to 10-in. c. i.; hyd. 56, hose con. 3-in. Waterous; valves, 50 l. h. opening; av. daily cons. 250,000 gal. 75%; serv. con. 400; ord. pres. 60 to 70 lb., fire pres. same.
Rates; flat, $5 six mo., bath $2, closet $2.

ST. CROIX FALLS, 569.
MUNICIPAL.
Comr., L. S. Robinson.....St. Croix Falls
" W. C. Manty..... " " "
" Pitt Pray..... " " "
Vil. Clerk, J. C. Hoglund.... " " "
Well, 8-in. 100 ft. deep; near center business section; reservoir, 165,000 gal.; no purification.
Pumps, 1-60,000 gal. vert. duplex F. M. 1908 geared to elec. motor, 12.5 hp. 3 ph. 60 cys. Westg. 1908; elec. energy from St. Croix Falls, Wisconsin Improvement Co.; pumping to reservoir, 165,000 gal.
Hyd. 18, hose con. 2¼-in. Eureka; valves, 3 l. h. opening; meters, 45 Buffalo; serv. con. 48; ord. pres. 75 to 95 lb., fire pres. same.
Rates; meter, min. charge 50c. mo. 200 cu. ft.

SHARON, 879.
MUNICIPAL.
Pres. Trustees, J. R. Morgan.....Sharon
Trustee, A. A. Lyman..... "
" C. Shager..... "
Supt. & Engr. P'g. Sta.,
L. C. Le Baron..... "

Wells, 8-in. 630 ft. deep; near center distribution; reservoir, 2-90,000 gal.; settling basins, 40,000 gal.

Boilers, one 125-hp. 125 lb. Freeman 1909, 1 55-hp. Scotch marine 125 lb. Leffel 1905; hand stoking; pump, 1-120,000 gal. triplex driven by elec. motor, 35-hp. 1150 v. 3 ph. 60 cys. G. E. 1915; air lifts driven by air compressor, 10 x 10-in. Ingersoll-Rand; steam engines, one 120-hp. high speed Ide 1914, 1 80-hp. Westg. 1912; elec. generators, 55 kva. G. E.; pumping to standpipe, 50,000 gal.

Pipe, 6 mi. 4 to 8-in.; hyd. 40, hose con. 3-in.; valves, 20 l. h. thd. Goulds; meters, 280 Pittsburgh & Neptune; av. daily cons. 30,000 gal.; serv. con. 280; ord. pres. 65 lb., fire pres. same.

Rates; meter, min. charge $5 year 20,000 gal., 31c. 1000 gal. max., 20c. min.

SHAWANO, 2,923.

CITY WATER & ELECTRIC PLANT.

Chmn. Comrs., Dr. B. Royer.....Shawano
Comr., J. A. Liege..... "
" Louis Rollman..... "
" Chas. Fink..... "
" Robt. Upham..... "
Supt. & Engr. P'g. Sta.,
Paul Capraro..... "
Cons. Engr.,
W. G. Kirchoffer.....Madison, Wis.

Wells, 12 tubular 4-in. 25 ft. deep; near center business section; reservoirs, 100,000 gal.; no purification.

Boilers, 2 water-tube 250-hp. ea. 70 & 150 lb. B. & W. 1908 & 1909; hand stoking; pumps, 2-720,000 gal. ea. hor. simple duplex Platt 1900, 1-1,080,000 gal. hor. comp. duplex Prescott 1908; steam engines, 100-hp. simple Corliss, Minneapolis Steel & Machine Co. 1910, 150-hp. comp. automatic Ridge Dynamo & Engine Co. 1905; pumping direct.

Pipe, 5.5 mi. 4 & 8-in. c. i.; hyd. 56, hose con. 2¼-in. Rensselaer; meters, 300 National; av. daily cons. 75,000 gal.; serv. con. 300; ord. pres. 45 to 50 lb., fire pres. 100 to 125 lb.

SHELL LAKE, 902.

MUNICIPAL. Shell Lake Water & Light Plant.

Vil. Pres., Andrew Ryan.....Shell Lake
Vil. Clerk, S. G. Swanson..... " "
Supt., A. J. Plahn..... " "

Shell Lake; no purification.

Boilers, 2 75-hp. ea. 120 lb. 1903; pumps, 2-20,000 gal. ea. hor. simple d. act. 1907; steam engine, 125-hp. 1905; elec. motors, 2 110 & 220 v. 3 ph. 143 cys. G. E. 1903; pumping direct.

Pipe, 2.5 mi. 4 to 12-in. c. i.; hyd. 23; av. daily cons. 20,000 gal. 100%; ord. pres. 40 to 70 lb., fire pres. 90 to 110 lb.

Rates; flat, $6 year, bath $2, closet $2.

SHERIDAN, 8,408.

MUNICIPAL.

Mayor, T. T. Tynan.....Sheridan
Comr., C. E. Worthington.....Sheridan
Treas., S. D. Canfield..... "
Comr. & Engr., C. R. Wood..... "

Impounding reservoirs on Big Goose Creek, 4-500,000 gal. ea.; no purification. Gravity distribution.

Pipe, 40 mi. 4 to 12-in. c. i.; hyd. 141, hose con. 2¼-in. Eddy & Ludlow; valves, 138 l. h. thd. Eddy; meters, 3 Buffalo; serv. con. 3000; ord. pres. 85 to 90 lb.

Rates; flat, $1 mo.; meter, 30c. 1000 gal. max., 20c. min.

SHULLSBURG, 1,062.

MUNICIPAL.

Mayor, C. C. Gratiot.....Shullsburg
City Clerk, Michael Harty..... "
Supt., Louis O'Donnell..... "

Wells, 2 tubular 6-in. 275 ft. deep; one mi. from center distribution.

Boiler, hor. 50-hp. Morrison; hand stoking; pumps 1-252,000 gal. American, 1-1,000,000 gal. Worth.; elec. motors, 220 v. 3 ph. 60 cys. G. E.; pumping to standpipe, 60,000 gal. wood.

Pipe, 4 mi. 6-in; hyd. 31, hose con. 3-in.; valves, 10; av. daily cons. 35,000 gal.; serv. con. 154; ord. pres. 80 to 100 lb., fire pres. 140 lb.

Rates; flat, modern house $9.50.

SOUTH MILWAUKEE, 6,092.

MUNICIPAL.

Supt., J. H. Neary.....South Milwaukee

Lake Michigan; one mi. from center business section; coagulating basins, 200,000 gal.; slow sand filters, 1,500,000 gal., Philadelphia Southern Co.; chemicals, sulphate of alumina & lime.

Boilers, 2 tubular 150-hp. ea. 150 lb. Milwaukee 1915, tubular 125-hp. 125 lb. Milwaukee 1908; hand stoking; pumps, 2-750,000 gal. ea. hor. d. act. Worth. 1894 & 1900, 1-1,500,000 gal. hor. d. act. Deane 1904, 1-2,000,000 gal. hor. centrifugal 1908, 1-1,500,000 gal. hor. centrifugal 1908; pumping to elev. tank (1896) 75,000 gal. iron.

Pipe, 14 mi. 6 to 12-in. c. i.; hyd. 140, hose con. 2¼-in. R. D. W.; valves, 44 r.& l. hand opening; meters, 840 various; av. daily cons. 550,000 gal.; serv. con. 840; ord. pres. 82 to 95 lb., fire pres. same.

Rates; meter, min. charge $1.25 quarter 6250 gal., 20c. 1000 gal. max., 4c. min.

SOUTH WAYNE, 475.

MUNICIPAL.

E. J. McKnight.....South Wayne
Engr. P'g. Sta., H. J. Heal.... " "
Vil. Clerk, V. C. Hewery..... " "

Wells, 200 ft. deep; near center business section; reservoirs, 40,000 gal.

Pumps, 1-144,000 gal. vert. simple c. & f. wh. Goulds 1913 driven by gasoline engine, 25-hp. International 1912; pumping to elev. tank (1912) 40,000 gal. steel.

Pipe, 1.5 mi. 4 & 6-in.; hyd. 14, hose con. 3-in.; av. daily cons. 9000 gal.

Rates; flat, $1.50 quarter.

SPARTA, 3,973.
MUNICIPAL.
Pres. Comr., John Kamp.....Sparta
V. Pres., Fred W. Teall..... "
Sec., Supt. & Engr. P'g. Sta.,
C. H. Gregory..... "
Treas., C. T. Samson..... "
La Crosse River & wells, 2 16 x 32 ft. 30 ft. deep; ¼ mi. from center distribution; no purification.
Boilers, 2 tubular 80-hp. ea. Freeman & Milwaukee; hand stoking; pumps, 1-1,000,000 gal. L-D-G, 1-1,500,000 gal. Allis-C; pumping to reservoir, 435,000 gal.
Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 79, hose 2½-in.; valves, 75 r. & l. h. thd. Eddy; meters, 525 various; av. daily cons. 400,000 gal.; serv. con. 525; ord. pres. 65 to 80 lb., fire pres. 100 to 150 lb.
Rates; meter, min. charge $2.50 1500 cu. ft., 10c. 100 cu. ft. max., 3¼ min.

SPOONER, 1,453.
MUNICIPAL WATER & LIGHT PLANT.
Mayor, F. Hammill.....Spooner
City Clerk, J. Sage..... "
Supt., Emil Simpson..... "
Water turbines, 50-hp. Smith.

STEVENS POINT, 8,692.
THE STEVENS POINT WATER CO.
Pres., C. E. Gray.....Stevens Point
Sec. & Mgr., T. W. Gray..... " "
Supt., E. P. Trautman..... " "
Wisconsin River; mech. filters, 2-250,000 gal. Jewell.
Boilers, 2 hor. tubular 80-hp.; pumps, 2-2,000,000 gal. ea. duplex Holly; pumping to standpipe, 362,000 gal. steel.
Pipe, 14.7 mi. 2¼ to 14-in. c. i.; hyd. 156 Ludlow; valves, 66 Eddy, Ludlow & Clow; meters, 231 Neptune; av. daily cons. 652,000 gal.; serv. con. 722; ord. pres. 50 to 65 lb.
Rates; meters, min. charge $2.50 quarter, 26c. 100 cu. ft. max., 4¼ min.

STOUGHTON, 4,761.
MUNICIPAL.
Chmn. Comrs., Olaf Norland....Stoughton
Comr., Eimer Melum..... "
" Eimer Sindrude..... "
Supt., S. B. Snyder..... "
Artesian wells; one mi. from center distribution; no purification.
Boiler, tubular 100-hp. Ames; hand stoking; pumps, 4-2,500,000 gal. American, Goulds & 2 Deane; elec. motors, 2 30-kw. 440 v. 3 ph. 60 cys. Ft. Wayne & G. E.; elec. energy from municipal plant; pumping to standpipe (1884) brick & steel.
Pipe, 14 mi. 4 to 12-in.; hyd. 105, hose con. 2½-in. Eddy, Rensselaer & R. D. W.; valves, 100 r. & l. h. thd. various; meters, 408 various; av. daily cons. 325,000 gal.; serv. con. 826; ord. pres. 60 to 70 lb., fire pres. 100 to 120 lb.
Rates; flat, min. $6 year; meter, 30c. 1000 gal. max., 4c. min.

THROP, 741.
MUNICIPAL.
Pres., W. S. Parks.....Throp
Supt. & Engr. P'g. Sta.,
H. Stracker..... "
Wells, 2 open 14 & 20 ft. diam. 25 & 28 ft. deep.
Boilers, tubular 100-hp. 120 lb. Williams 1911, tubular 85-hp. 110 lb. Erie 1901; pump, one hor. duplex d. act. Worth. 1899; pumping to elev. tank (1894) 50,000 gal.
Pipe, 2 mi. 4 & 6-in.; hyd. 19, hose con. 2½-in. Michigan & Eddy; valves, 13 r. & l. h. opening; meters, none; av. daily cons. 30,000 gal.; serv. con. 75; ord. pres. 45 to 56 lb.

STURGEON BAY, 4,362.
MUNICIPAL LIGHT, WATER & HEAT COMMISSION.
Pres., J. Wolter.....Sturgeon Bay
Sec., H. C. Scofield..... " "
Supt., Jas. E. Johnson..... " "
Sturgeon Bay, ½ mi. from center business section.
Boilers, 3 tubular 125-hp. ea. 125 lb. Erie 1908; hand stoking; pumps, 1-15,000 gal. vert. comp. d. act. Platt 1908; pumping direct.
Pipe, 2.5 mi. 12-in. c. i.; hyd. 20, Rensselaer; valves, 10; meters, 22; av. daily cons. 150,000 gal.; serv. con. 105; ord. pres. 40 to 60 lb.; fire pres. 100 to 120 lb.
Rates; flat, $10 year; meter, min. charge $5 year, 30c. 1000 gal.

SUPERIOR, 40,384.
SUPERIOR WATER, LIGHT & POWER CO.
Pres., Thos. B. Scott.....Burkeville, Va.
V. Pres. & Gen. Mgr.,
W. H. Winslow.....Superior
Sec., C. D. Se Cheverell..... "
Mgr., A. N. Anderberg..... "
Gen. Supt., Lounsbury..... "
Cons. Engr., Allen Hazen,
30 West 42d St., New York, N. Y.
Engr. P'g. Sta., A. E. Bishopp.....Superior
Chemist, A. W. Fowler..... "
Wells, 130 tubular 6-in. 18 to 40 ft. deep; one mi. from center distribution; slow sand filters, 3-5,000,000 gal. & aeration.
Boilers, 4 water-tube & one tubular 585-hp. B. & W. & Williams; pumps, 6-25,000,000 gal. Allis, Worth., Prescott, Deane & Epping-Carpenter; pumping direct & to reservoirs, 2-1,300,000 gal.
Pipe, 68.5 mi. 2 to 24-in. c. i.; hyd. 828, hose con. 2½-in. R. D. W.; valves, 392 l. h. thd. Roe-Stephens; meters, 5191; av. daily cons. 2,000,000 gal.; serv. con. 5636; ord. pres. 50 to 70 lb., fire pres. 100 to 135 lb.
Rates; meter, 65c. 100 cu. ft. max., 30c. min.

TURTLE LAKE, *500.
MUNICIPAL.
Vil. Pres., L. H. Rivard.....Turtle Lake
Vil. Clerk, Frank McKenzie.... " "
Supt. & Engr. P'g. Sta.,

Edward Hunter.....Turtle Lake

Wells, 8-in. 740 ft. deep; near center distribution.

Gravity distribution from elev. tank (1914) 36,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, one mi. 2 to 8 in.; hyd. 12; valves, 10 r. h. opening; serv. con. 50; ord. pres. 45 lb., fire pres. same.

Rates; flat, $2 quarter.

TWO RIVERS, 4,850.

MUNICIPAL WATER & LIGHT PLANT.

Pres. Comrs., W. Kohlenburg...Two Rivers
Supt., G. H. Wayhusen..... " "

Boilers, 2 50-hp. Ft. Wayne; pump, one steam driven 25-hp. Kewanee; steam engine, one 6-hp. Nordberg.

VIOLA, 671.

MUNICIPAL.

Pres. Comrs., A. J. Dake.....Viola
Comr., W. J. Fishal..... "
" Ed. Bender..... "
Vil. Clerk, D. D. Buxter..... "

Artesian wells, 6-in. 500 ft. deep; near center business section; reservoir, 640,000 gal.

Pumps, 2-288,000 gal. triplex F. M. 1907 belted to gas engine, 25-hp. F. M. 1907, 1-424,000 gal. hor. centrifugal Allis-C. 1915 d. con. to elec. motor 25-hp. 220 v. 3 ph. 60 cys. Allis-C. 1915; elec. energy from Viola Light & Power Co.; pumping to reservoir, 64,000 gal.

Hyd. 52, hose con. 2¼-in.; valves, 6 r. h. opening Eddy; meters, 10 Thomson; av. daily cons. 10,000 gal.; serv. con. 100; ord. pres. 85 to 90 lb., fire pres. 90 to 97 lb.

Rates; flat, $3 year, bath $1.50 closet $2; meters, min. charge $1.50 six mo. 5000 gal., 30c. 1000 gal.

WALWORTH, 755.

MUNICIPAL BOARD OF TRUSTEES.

Pres., M. Colburn.....Walworth
Supt., Geo. B. Leach..... "

Well, 8-in. 102 ft. deep; pump 1-115,000 200 gal. vert. s. Goulds belted to elec. motor, 15-hp. 220 v. 2 ph. 60 cys. G. E.; pumping to elev. tank (1911) 50,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 2.5 mi. 4 to 8-in. c. i.; hyd. 33, hose con. 2¼-in. Ludlow; valves, 16 l. h. opening; meters, 76 Pittsburgh, Neptune & Badger; av. daily cons. 3500 gal.; serv. con. 75; ord. pres. 50 to 55 lb., fire pres. same.

Rates; meter, charge $2.50 six mo. 5000 gal.

WAUPACA, 2,789.

MUNICIPAL. Board of Public Works.

Chmn., H. E. Gordon.....Waupaca
Mbr., Hans Ebbe..... "
" Thos. Davidson..... "
City Clerk, J. F. Knutsen..... "

Mirror Lake & wells, 20 tubular 3-in. 50 ft. deep; ¼ mi. from center business section; reservoir, 282,000 gal.; no purification.

Boilers, 4-864,000 gal. ea. hor. duplex 1897 geared to water-turbines, 2 75-hp. ea. Victor, 1-800,000 gal. vert. centrifugal B. J. 1905 d. con. to elec. motor, 75-hp. 560 v. d. c. Northern 1905; elec. generator 75 kw. Northern; pumping to reservoirs, above.

Pipe, 9.75 mi. 1¼ to 12-in. c. i. & w. i.; hyd. 78, hose con. 2¼-in. Eddy; valves, 80 r. & l. h. opening; meters, 15 National, Badger & Neptune; av. daily cons. 243,000 gal.; serv. con. 557; ord. pres. 50 to 55 lb., fire pres. 50 to 150 lb.

Rates; flat, $4 six mo., bath $2, closet $2; meter, min. charge $2.50 six mo. 10,000 gal., 25c. 1000 gal. max., 7c. min.

WATERLOO, 1,222.

MUNICIPAL.

Supt., E. A. Porter.....Waterloo

WATERTOWN, 8,829.

MUNICIPAL.

Supt., Chas. Mackay.....Watertown
Sec. Comrs., Wm. F. Voss..... "

Wells, 3 750 to 1000 ft. deep; reservoir, 250,000 gal.; no purification.

Boilers, 2 hor. tubular 100-hp.; pumps, 2-3,000,000 gal. hor. comp. duplex Platt; pumping to standpipe, 150,000 gal.

Pipe, 21.1 mi. 4 to 16-in. c. i.; hyd. 182 Ludlow; valves, 159 Eddy & Rensselaer; meters, 1238 various; av. daily cons. 700,000 gal.; serv. con. 1243; ord. pres. 80 to 120 lb.

WAUKESHA, 8,644.

MUNICIPAL.

Pres. Comrs., E. Merton.....Waukesha
Comr., J. C. Laving..... "
" J. Jault..... "
Sec., F. Phelps..... "
Supt., B. B. Hayford..... "

Wells, 9 tubular 6-in. 18000 ft. deep; near center business section.

Pumps, 4-720,000 gal. ea. vert. centrifugal driven by elec. motors, six 20 to 100-hp. 440 v. 2 ph. 60 cys. Westg.; air compressors, 2-600 cu. ft. Rand driven by elec. motor; pumping to standpipe (1887) 135,000 gal.

Pipe, 27 mi. 6 to 16-in.; hyd. 249, hose con. 2¼-in. Ludlow & Rensselaer; valves, 230 r. h. opening; meters, 1860 various; serv. con. 1860; ord. pres. 65 lb., fire pres. 100 lb.

Rates; meters, $6 year 20,000 gal., 30c. 1000 gal. max., 10c. min.

WAUSAU, 16,563.

MUNICIPAL.

Supt., Henry Gross.....Wausau

Wells, 40 tubular 135 ft. deep & one open; no purification.

Boilers, 4 hor. tubular 150-hp. ea. Murray; pumps, 2-3,000,000 gal. ea. Holly, 1-6,000,000 gal. Snow; pumping to standpipe, 50,000 gal. concrete.

Pipe, 40 mi. 4 to 16-in. c. i.; hyd. 265 Holly & R. D. W.; valves, 460 Eddy & Crane; meters, 110 National & Neptune; av. daily cons. 2,500,000 gal.; serv. con. 2550; ord. pres. 60 lb.

WAUWATOSA, 3,346.

MUNICIPAL. Board of Public Works.
Chmn. C. T. Chandler.....Wauwatosa
City Clerk, A. W. Brigham.... "
City Engr., T. A. Tarkelson.... "
Supt., John Anderson..... "

Artesian wells, 8 to 10-in., 50 ft. deep; ¼ mi. from center business section; no purification.

Boilers, 2 tubular 70-hp. ea. Gem 1898; hand stoking; 2-1,000,000 gal. hor. comp. d. act. Platt 1898; air compressor, 500 cu. ft. Ingersoll-Rand 1911 steam driven; pumping to elev. tank (1898) 108,000 gal. iron, Canton Bridge Co.

Pipe, 18 mi. 6 to 12-in. c. i.; hyd. 250, hose con. 2¼-in. R. D. W.; valves, 240 r. h. opening R. D. W.; meters, 700; av. daily cons. 212,000 gal. 65%; serv. con. 716; ord. pres. 45 to 90 lb., fire pres. same.

Rates; flat, $5 year, bath $3, closet $2; meters, min. charge $1.75 six mo. 2200 cu. ft., 8c. 100 cu. ft.

WEST ALLIS, 6,645.

MUNICIPAL.
Supt., Frank C. Canning.....West Allis

Buy water under pressure from Milwaukee.

Pumps, Goulds driven by elec. motor, 550 kw. 950 v. a. c.; used only to obtain fire pressure.

Pipe, 6 to 12-in. c. i.; hyd. 380, hose con. 2¼-in. R. D. W.; valves, 108 r. h. thd. Eddy; meters, 1400 mostly Badger; av. daily cons. 312,000 gal.; serv. con. 1600; ord. pres. 25 to 50 lb., fire pres. 150 lb.

Rates; meter, min. charge $1 quarter, $1 1000 cu. ft.

WEST BEND, 2,462.

MUNICIPAL. Board of Public Works.
Chmn. J. M. O'Meara.....West Bend
Mbr. Ed. Boeswetter..... " "
" Oscar C. Schlegel..... " "
City Clerk, Chas. P. Heipp..... " "
Engr. P'g. Sta.,
Ferdinand Nehrbass..... " "

Artesian well, 6 to 10-in. 1235 ft. deep; near center business section; no purification.

Pumps, 1-144,000 gal. simplex Deane 1908 belted to elec. motor, 35-hp. 220 v. 3 ph. 60 cys. Westg. 1912, 1-360,000 gal. vert. centrifugal American 1914 d. con. to elec. motor, 35-hp. 220 v. 3 ph. 60 cys. Wagner 1914; elec. energy from West Bend Heating & Lighting Co.; pumping to elev. tank (1908) 60,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 7.5 mi. 4 to 10-in. c. i.; hyd. 79, hose con. 2¼-in. Rensselaer & Eddy; valves, 65 r. & l. h. opening Eddy & Rensselaer; meters, 375 Badger & Worth.; av. daily cons. 1000,000 gal. 90%; serv. con. 375; ord. pres. 55 to 65 lb., fire pres. same.

Rates; flat meter, min charge $5 year 5,600 cu. ft. 9c. 100 cu. ft.

WEST SALEM, 840.

MUNICIPAL.
Vil. Clerk, L. C. Sander.....West Salem
Trustee, A. C. Cullman..... " "
" H. D. Griswold..... " "
" B. B. Mercereau..... " "
Vil. Clerk, S. W. Brown..... " "
Engr. P'g. Sta., F. Hermann.... " "

Well, 6-in. 420 ft. deep; in center of business section; reservoir, 100,000 gal.; settling basin.

Pumps, 1-11,960 gal. vert. single F. M. 1903 d. con. to oil engine, 10-hp. F. M. 1913; pumping direct & to reservoir above.

Pipe, 4 mi. 6-in. c. i.; hyd. 18, hose con. 2¼-in.; meters, 180 Pittsburgh.

Rates; meter, min. charge $2 six mo. 13,300 gal. 50c. 1000 gal. max., 10c. min.

WHITEWATER, 3,224.

MUNICIPAL.
Pres., W. N. Shepherd.....Whitewater
Supt., E. A. Griswold..... "
Engr. P'g. Sta., Sam Omdall.... "

Wells, 4 artesian 6 to 12-in. 400 to 1100 ft. deep; ¼ mi. from center business section.

Boiler, 80-hp. 80 lb. Gray, 120-hp. 125 lb. Gray; hand stoking; pumps, 2-175,000 gal. ea. s. d. act. Deane 1889; pumping direct & to standpipe (1889) 185,000 gal. & reservoir, 855,000 gal.

Pipe, 8.5 mi. 4 to 10-in. c. i.; hyd. 102, hose con. 2¼-in.; valves, 38 r. h. opening; meters, 129; av. daily cons. 170,000 gal.; serv. con. 321; ord. pres. 60 to 74 lb., fire pres. 60 to 125 lb.

Rates; flat, $1.50 quarter, bath $1, closet $1; meter, min. charge 80c. mo. 2000 gal., 40c. 1000 gal. max., 6c. min.

WITHEE, 443.

MUNICIPAL.
Vil. Pres., John Stevenson.....Withee
Supt., Herman Bartholomay..... "

Well, 10 ft. diam. 35 ft. deep; near center business section; no purification.

Pumps, 1-144,000 gal. deep well Deming, driven by gasoline engine, 15-hp. F. M. 1907; pumping to elev. tank (1907) 30,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, one mi. 4 & 6-in. c. i.; hyd. 12, hose con. 2¼-in. Rensselaer; valves, 11 l. h. opening Rensselaer; meters, 3; av. daily cons. 8000 gal.; serv. con. 50; ord. pres. 45 lb., fire pres. same.

Rates; flat, $6 year; meter, min. charge $6 year 12,000 gal.

WYOMING

AFTON, 570.
MUNICIPAL.
Vil. Clerk, Leslie Cole.....Afton
Supt., N. N. Hill..... "
Cons. Engr.,
R. R. Lyman..Salt Lake City, Utah
Creek; 1.5 mi. from center business section; no purification.
Hyd. 7, hose con 2½-in.; valves, 2; serv. con. 100; ord. pres. 60 lb.
Rates: flat $10 year, bath $1, closet $1.

BASIN, 763.
MUNICIPAL.
Mayor, J. H. Berry.....Basin
Town Clerk, Jas. Ewers..... "
Engr. P'g. Sta., G. B. Morrison..... "
Big Horn River; ¼ mi. from center business section; settling basin, 50,000 gal.; coagulating basin, 20,000 gal.; mechanical filters, 500,000 gal. Greer Filter Mfg. Co.; chemical, sulphate of alumina.
Boilers, 2 hor. tubular 235-hp. ea. 110 lb. Murray 1911; hand stoking; pumps, 2-720,000 gal. & 360,000 gal. hor. c. & f. wh. Deane 1907 & Platt 1911, 2-300,000 gal. ea. vert. centrifugal Platt 1911 d. con. to elec. motors, 1-100,000 gal. vert. centrifugal American 1911 d. con. to elec. motor, steam engines, 105-hp. Murray, 130-hp. Skinner; elec. motors, 20-hp. 440 v. 3 ph. 60 cys. G. E. 1911, 2 7.5-hp. ea. 440 v. 3 ph. 60 cys. G. E. 1911; pumping to reservoir, 375,000 gal.
Pipe, 10 mi. 4 to 8-in. c. i.; valves, r. & l. h. opening; av. daily cons. 250,000 gal.; ord. pres. 85 to 100 lb., fire pres. same.
Rates: flat, $1.75 mo., bath 50c., closet 50c.

BUFFALO, 1,268.
MUNICIPAL.
Mayor, J. W. Todd.....Buffalo
City Clerk & Comr., A. E. Nelson.... "
Clear Creek; 8 to 15 mi. from center business section; gravity distribution.
Pipe, 7 mi. 4 to 14-in. Kalamein; hyd. 45, hose con. 2½-in. Eureka & Ludlow; valves, 39 l. h. opening Ludlow & Crane; serv. con. 350; ord. pres. 70 to 140 lb., fire pres. 70 to 180 lb.
Rates: flat, $14 year, bath $2.50, closet $2.50.

CAMBRIA, 900.
THE CAMBRIA FUEL CO. Supplies Newcastle.
Wells, 2350 ft. deep; reservoirs, 2-1,750,000 gal.; pumping with air lifts.

CASPER, 2,639.
MUNICIPAL.
Mayor, E. P. Rohrbaugh.....Casper
City Clerk, Chester Bryan..... "
Supt., Jacob Nelson.
Impounding reservoir on mountain stream, 54,000,000 gal.; gravity distribution from reservoir, 400,000gal.
Pipe, 14.5 mi 4 to 8-in. c. i. & steel; hyd. 44, hose con. 2½-in. Kupferle; valves, 65 l. h. opening Crane; meters, 875 Buffalo, Neptune & Pittsburgh; av. daily cons. 600,000 gal.; serv. con. 900; ord. pres. 70 to 90 lb., fire pres. same.
Rates: meter, min. charge $1.50 quarter, 50c. 1000 gal. max., 5c. min.

CHEYENNE, 11,320.
MUNICIPAL.
Mayor, R. N. LaFontaine.....Cheyenne
Comr., D. C. Barksdale..... "
" Enos Laughlin..... "
City Engr. & Supt.,
R. D. Goodrich..... "
Impounding reservoir on Crow Creek; 3,883,000 gal.; 20 mi. from center distribution; settling basins, 2-35,800,000 gal.; chemical, copper sulphate.
Boilers, 2 hor. return tubular; hand stoking; pumps, 1-2,000,000 gal. Holly used for emergency only; gravity distribution from reservoir, 8,000,000 gal.
Pipe, 38 mi. 4 to 30 in. c. i.; hyd. 170, hose con. 2½-in. Chapman & Rensselaer; valves, 400 l. h. thd. Chapman & Rensselaer; meters, 200 Neptune & National; av. daily cons. 3,460,000 gal.; serv. con. 1800; ord. pres. 110 to 130 lb., fire pres. same.
Rates: flat, $7 year, bath $5, closet $5; meter, 25c. 1000 gal. max., 5c. min.

CODY, 1,132.
MUNICIPAL.
Supt., Sam Forest.....Cody

COKEVILLE, *500.
MUNICIPAL.
Mayor, W. H. Wyman.....Cokeville
City Clerk, L. A. Woodward..... "
Supt., R. W. Collett..... "
Springs; 3 mi. from center business section; reservoir, 25,000 gal.; gravity distribution.
Hyd. 15, hose con. 2½-in. Eureka; meters, none; serv. con. 62; ord. pres. 51 to 63 lb., fire pres. same.
Rates: flat, $12 year including bath & closet.

DAYTON, 313.
MUNICIPAL.
Mayor, Mrs. Susan Wissler.....Dayton
Vil. Clerk, E. A. Gerber..... "
Tongue River; 2.5 mi. from center business section; gravity distribution.
Pipe, 2 mi. 6-in. c. i.; hyd. 9, hose con. 4-in.; meters, none; serv. con. 65; ord. pres. 50 to 60 lb., fire pres. 60 lb.
Rates: flat $3 quarter.

DOUGLAS, 2,246.
MUNICIPAL.
City Engr., Frank S. Knittle.....Douglas

EVANSTON, 2,583.

MUNICIPAL.

Mayor, I. Kastor.....Evanston
Comr., W. H. Armstrong..... "
" Jas. Whittle..... "
" J. L. Wicks..... "
" G. M. Carruth..... "
Cons. Engr., G. H. Chapman.... "

Bear River; 7 mi. from center business section; reservoirs, 2-1,800,000 gal.; no purification.

Pump, one vert. centrifugal driven by elec. motor, 50-hp. 1907; elec. energy from Evanston Electric Light Co., pumping to reservoirs above.

Pipe, 6 mi. 4 to 12-in. kalamein & steel; hyd. 40, hose con. 2½-in. Ludlow; valves, 30 r. h. opening Ludlow; meters, none; av. daily cons. 650,000 gal.; serv. con. 500; ord. pres. 40 to 88 lb., fire pres. same.

Rates: flat, $2.50 quarter, bath $1, closet $1.25.

GLENROCK, 400.

MUNICIPAL.

Mayor, E. H. Kimball.....Glenrock
Town Clerk, Edna J. Rollins..... "
Cons. Engr., C. C. Carlisle.....Cheyenne
Engr. P'g. Sta., Martin Smith.....Glenrock

Deer Creek; ¼ mi. from center business section; reservoir, 200,000 gal.

Pump, 1-250,000 gal. hor. duplex F. M. 1913 d. con. to oil engine 20-hp. F. M. 1913; pumping to reservoir above.

Pipe, 4 to 8-in. c. i.; hyd. 7, hose con. 2½-in. Rensselaer; valves, 4 l. h. opening; serv. con. 48; ord. pres. 40 lb.

Rates: flat, $1.50 mo., bath 25c., closet 25c.

LANDER, 1,812.

MUNICIPAL.

Mayor, F. E. Godfrey.....Lander
Supt. & Comr., E. W. Hainworth... "
Cons. Engr., Francis S. Tucker...Riverton

Mountain stream; settling basin; gravity distribution.

Pipe, 8 mi. 2 to 10-in.; hyd. 56, hose con. 2½-in. Bourbon; valves, 30 r. & l. h. opening; meters, none; serv. con. 366; ord. pres. 35 to 100 lb.

Rates: flat, $8 year, bath $4, closet $2.50.

LARAMIE, 8,237.

MUNICIPAL.

City Engr. & Supt., Z. E. Sevison..Laramie

Springs & impounding reservoir, 1,500,000 gal.; 1.5 mi. from center distribution; no purification.

Gravity distribution.

Pipe, 12 mi. 4 to 12-in. c. & w. i.; hyd. 45, hose con. 3-in. Ludlow & Eddy; av. daily cons. 1,800,000 gal.; ord. pres. 15 to 35 lb.

Water is entirely free and without limit as to quantity used.

MANVILLE, 250.

MUNICIPAL.

Mayor, W. P. Spaugh.....Manville
Engr. P'g. Sta., G. G. Allen..... "

Well, 10-in. 200 ft. deep; near center business section; reservoir, 50,000 gal.

Pumps, 1-144,000 gal. hor. duplex d. con. to oil engine, 25-hp. Alamo 1914; pumping to elev. tank (1914) 50,000 gal. steel, Minneapolis Steel & Machinery Co.

Pipe, one mi. 4 & 6-in. c. i.; hyd. 13, hose con. 4-in. Eureka; meters, one Pittsburgh; av. daily cons. 20,000 gal.; serv. con. 17; ord. pres. 45 lb., fire pres. 60 lb.

Rates: flat, $1.50 mo. including bath; meter, 12.5c. 1000 gal. max., 10c. min.

NEWCASTLE, 975.

SUPPLIED BY THE CAMBRIA FUEL CO.

See Cambria.

PINE BLUFF, *350.

MUNICIPAL.

Mayor, C. L. Beatty.....Pine Bluff
Supt. & Engr. P'g. Sta.,
Karl Gardner..... "

Well, 8-in. 60 ft. deep; near center business section.

Pump, 1-400,000 gal. vert. triplex d. con to gasoline engine, Alamo 1911; pumping direct & to reservoir, 55,000 gal.

Pipe, 5 mi. 4 & 8-in.; hyd. 12, hose con. 3-in.; valves, 4 r. h. opening; meters, 29 Worth.; av. daily cons. 12,000 gal.; serv. con. 33; ord. pres. 90 lb., fire pres. 90 to 100 lb.

Rates: flat, 50c. mo., meter, min. charge 50c. mo. 1600 gal., 50c. 1000 gal.

RIVERTON, 483.

MUNICIPAL.

Supt., A. Boland.....Riverton
Cons. Engr., Mr. Tucker..... "

Wind River; ¾ mi. from center business section; no purification; pump driven by gasoline engine, 15-hp. F. M. 1908; pumping to elev. tank (1908) 50,000 gal. wood.

Hyd. 26; meters, 129; av. daily cons. 25,000 gal.; serv. con. 129; ord. pres. 35 to 45 lb., fire pres. same.

Rates: meter, $3 quarter, 6000 gal.

SHOSHONI, 604.

MUNICIPAL.

Supt., R. E. Ireland.....Shoshoni
Town Clerk, R. S. Lerin..... "
Engr. P'g. Sta., W. R. Perrin..... "

Wind River; 3.5 mi. from center distribution; no purification.

Boiler, 50-hp.; hand stoking; pumps, 2-24,000 gal. ea. Goulds & Platt; elec. motor, 50-hp. 220 v. 3 ph. 60 cys. Westg.; pumping to reservoir, 400,000 gal.

Hyd. 18 Rensselaer; meters, 125 Buffalo & Neptune; av. daily cons. 50,000 gal.; serv. con. 125; ord. pres. 75 lb.

Rates: meter, min. charge $1.25 mo. 1000 gal., 15c. 1000 gal.

THERMOPOLIS, 1,524.

MUNICIPAL.

Supt., Wm. Clayton.....Thermopolis
Vil. Clerk, W. J. Sisk..... "
Des. Engr., M. D. Woolery.... "
Engr. P'g. Sta., M. D. Thompson "

Big Horn River; ½ mi. from center distribution.

Boiler, 40-hp.; hand stoking; pumps, 2-720,000 gal.; elec. motor, one; pumping to reservoir, 100,000 gal.

Hyd. 25, hose con. 4-in.; av. daily cons. 150,000 gal.; serv. con. 180; ord. pres. 60 to 87 lb.

WHEATLAND, 796.

MUNICIPAL.

City Engr., J. A. Elliott.....Wheatland

ALBERTA

BAMFF, 937.
MUNICIPAL.
Supt., A. B. McDonald.....Bamff
Engr., J. P. Childs..... "
Forty-mile Creek; 2.5 mi. from center of business section; gravity distribution.
Pipe, 4.5 mi. 10-in.; hyd. 32; serv. con. 150; ord. pres. 125 lb.

BANKHEAD, 694.
CANADIAN PACIFIC RAILWAY. Department of Natural Resources. Office, Calgary.
Gen. Supt., Lewis Stockett.....Calgary
Pur. Agt., J. T. H. Ferguson..... "
Supt., D. G. Wilson.....Bankhead
Cascade River and lake; ¼ mi. from center business section; no purification.
Boiler, return tubular, 150-hp. 130 lb. Robb 1905; hand stoking; pumps, 2-720,000 gal. hor. comp. d. act. Cameron 1905; pumping to elev. tank (1905) 500,000 gal. wood.
Pipe, 3 mi. 2 to 12-in. c. i.; hyd. 21, hose con. 2½-in. av. daily cons. 25,000 gal.; serv. con. 120; ord. pres. 75 to 130 lb., fire pres. same.

BASSANO, 545.
MUNICIPAL. Board of water commissioners.
Chmn., Wallace Flanagan.....Bassano
Comr., A. T. Connolly..... "
" R. H. Struthers..... "
Vil. Clerk, Geo. B. R. Boud..... "
Supt., Geo. W. Murgatroyd..... "
Cons. Engr., John Galt Eng. Co...Calgary
Engr. P'g. Sta., Richard Williams..Bassano
Bow River; 3.5 mi. from center of business section; reservoir, 0.5 x 8 mi. 40-ft. deep.
Boilers, 2 hor. tubular 125-hp. ea. 100 lb. International 1913; hand stoking; pump, 1-420,000 gal. vert. comp. c. & f. wh. Inglis 1913; steam engine, Inglis 1913; pumping to standpipe (1913) 200,000 gal.
Pipe, 5.5 mi. 6 to 10-in. steel; hyd. 13, hose con. 2½-in. London; valves, 58, r. h. opening London; meters, 88 National; av. daily cons. 108,300 gal. 60%; serv. con. 72; ord. pres. 65 to 90 lb., fire pres. same.
Rates: flat, $1.50 mo.; meter, min. charge $1.25 mo. 40c. 1000 gal. max., 5c. min.

CALGARY, 43,704.
MUNICIPAL.
Supt., Ch. Engr.,
A. W. Ellson Fawkes.....Calgary
Engr. P'g. Sta., A. Cousins..... "
Chemist, J. Field..... "
Bow & Elbow Rivers; 13 mi. from center of business section; infiltration gallery, 100 x 300 ft.; chemical, hypochlorite of lime.
Pumps, 2-7,500,000 gal. Allis-Chalmers d. con. to elec. motors, 325-hp. 10 kw. ea. 2300 v. 3 ph. 60 cys. Allis-Chalmers; pumping to reservoir, 16,000,000 gal. & elev. tank, 100,000 gal. steel.
Pipes, 205 mi. 4 to 30-in. c. i. & steel; hyd. 1000; valves, 60,000 r. & l. h. thd. various; meters, 900 various; av. daily cons. 20,000,000 gal.; serv. con. 12,000; ord. pres. 70 to 90 lb., fire pres. 90 to 125 lb.
Rates: meter, min. charge $12 year, 22c. 1000 gal. max., 6c. min.

CAMROSE, 1,586.
MUNICIPAL. Board of Water & Sewer Commissioners.
Comr., Sydney Appleton.....Camrose
City Clerk, J. P. Saunders..... "
Engr. P'g. Sta., J. S. Eby..... "
Chemist,
Provincia Analyst.....Edmonton
Wells, 4 tubular 6 & 18-in. 130 & 135 ft. deep; ½ mi. from center business section; settling basins, 200,000 gal.
Boilers, 2 tubular 150-hp. ea. 125 lb. Leonard 1911; hand stoking; pumps, 1-936,000 gal. hor. centrifugal Worth. 1911 belted to steam engine, 100-hp. Robb 1911; air compressor, 180 cu. ft. Ingersoll 1911 d. con. to steam engine; pumping to reservoir above and elev. tank (1911) 100,000 gal. steel.
Pipe, 3.5 mi. 6 & 8-in. c. i. & s.; hyd. 35, hose con. 2½-in.; valves, 35, l. h. opening McAvity; meters, 130 Neptune; av. daily cons. 46,000 gal. 95%; serv. con. 115; ord. pres. 56 to 65 lb., fire pres. 145 to 150 lb.
Rates: meters, min. charge $1.50 mo. 200 cu. ft. 65c. 100 cu. ft. max., 12c. min.

CARDSTON, 1,207.
MUNICIPAL. Fire, Water & Light Commission.
Supt. & Engr., A. Longstaff.....Cardston
Lee's creek; 6 mi. from center business section.
Boilers, two 100-hp. ea. 100 lb. Robb 1906; pump, 1-364,000 gal. hor. comp. duplex d. act. Knowles 1906, two hor. duplex F. M. 1906 d. con. to steam engine, 100-hp. Robb. 1906; pumping to standpipe (1912) and direct pressure for fire.
Pipe, wood; hyd. 34, hose con. 2½-in. Ludlow & Kupferle; valves, 20 r. h. opening various; meters, none; serv. con. 175; ord. pres. 40 to 100 lb. fire pres. 100 lb.
Rates: flat, $18 year, bath, $3.30, closet, $2.20, meters, 25c. 1000 gal. max., 10c. min.

CLARESHOLM, 809.
MUNICIPAL.
Willow Creek; 6 mi. from center of business section; natural gravel filters.
Pump driven by elec. motor, 50 & 60-hp.; pumping to standpipe, 100,000 gal.
Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 29; av. daily cons. 35,000 gal.; serv. con. 100.; ord. pres. 40 lb. fire pres. 65 to 100 lb.
Rates: flat, $12 year; meter, 8c. 1000 gal.

COLEMAN, 1,557.

INTERNATIONAL COLE & COKE CO., LTD.

Manager, O. E. F. Whiteside.....Coleman

Nez Perce Creek & Oldman River.

Pumps, 16; pumping to reservoir, 1,000,000 gal.

Pipe, 4 mi. 2 to 10-in. wood; hyd. 6; av. daily cons. 300,000 gal.; serv. con. 180; ord. pres. 135 lb.

Rate: flat, $18 year.

EDMONTON, 30,855.

MUNICIPAL. Water Works Department.

Supt., J. W. Turner.....Edmonton
Ass't. Supt., T. W. Fawns..... "
Designing Engr., Willis Chipman "
Engr. P'g. Sta., C. E. Cope..... "

North Saskatchewan River; 5 mi. center of business section; settling basins, 1-1,250,000 gal.; mechanical filters, 6,000,000 gal. Roberts; chemicals, sulphate of alumina, & hypochlorite of lime.

Boilers, 2 water-tube, 450 & 500-hp. B. & W.; hand & mechanical stoking; pumps, 1-3,000,000 gal. Platt, 1-6,000,000 gal. Stillman, 2-10,000,000 gal. ea. Drysdale, 2-6,000,000 gal. ea. Inglis, 1-18,000,000 gal. Allen, Platt & Drysdale driven by elec. motor, 650 kw. 2300 v. 3 ph. 60 cys. Swedish; pumping direct and to elev. tank, 2-180,000 gal.

Pipe, 154 mi. 4 to 30-in. c. i. & steel; hyd. 495; hose con. 2½-in. Ludlow & R. D. W.; valves, 1650 l. h. opening; meters, 7130 various; av. daily cons. 4,750,000 gal.; serv. con. 9475; ord. pres. 30 to 125 lb., fire pres. 65 to 180 lb.

Rates: flat $8; meter, 25c. 100 cu. ft. max., 10c. min.

LETHBRIDGE, 8,050.

MUNICIPAL.

Mayor & Comr.,
W. D. L. Hardie.....Lethbridge
Comr., A. M. Grace..... "
" A. Reid..... "
City Clerk, W. Stevens..... "
Engr. P'g. Sta.,
Lion Goellnicht..... "

Belly River; 2 mi. center business section.

Boilers, 8 water-tube 2400-hp. B. & W.; mechanical stoking chain grate; pump, 1-2,000,000 gal. hor. tri. exp. d. act. Worth. 1910, 2-1,000,000 gal. ea. vert. centrifugal Worth. 1905, 2 hor. centrifugal Worth 1905; centrifugals driven by elec. motors, two 150-hp. ea. 2200 v. 60 cys. Allis-C 1905, 2 50-hp. ea. 2200 v. 2 ph. 60 cys. Allis-C 1905; pumping to standpipe, 2 (1903) (1908) steel & elev. tank, 110,000 gal. steel.

Pipe, 40 mi. 4 to 18-in. c. i.; wood & steel; hyd. 230; hose con. 2½-in. R. D. W.; valves, 305 r. h. opening Ludlow & Kupferle; meters, 103 mostly Leeds; av. daily cons. 1,250,000 gal. serv. con. 2270; ord. pres. 35 to 50 lb., fire pres. 79 to 94 lb.

MacLEOD, 1,837.

MUNICIPAL.

Supt., G. H. Altham.....MacLeod
City Clerk, E. F. Brown..... "

Old Man River; ¼ mi. center business section; settling basins, 2-2,000,000 gal. Roberts; chemical, sulphate of alumina.

Boilers, 4 125-hp. ea. 120 lb. Robb 1907; pumps, 2-1,000,000 gal. ea. hor. comp. d. act. Inglis 1907; steam engines, 180-hp. Leonard 1907; 450-hp. comp. Corliss, Goldie & McCulloch 1909; pumping to standpipe (1907) 100,000 gal.

Pipe, 8 mi. 6 to 8-in. c. i. steel & wood; hyd. 50, hose con. 2½-in. R. D. W.; av. daily con. 500,000 gal. 75%; serv. con. 425; ord. pres. 50 to 60 lb., fire pres. 50 to 100 lb.

Rates: flat, $20 year, bath $3, closet $2.

MEDICINE HAT, 5,608.

MUNICIPAL.

City Engr., A. K. Grimmer..Medicine Hat
Designing Engr., R. S. Lea... " "
Operating Engr., G. R. Taylor " "

Saskatchewan River; 2 mi. center business section; settling & coagulating basins, 750,000 gal.; mechanical filters, 6,000,000 gal. N. Y. C. Jewell; chemicals, sulphate of alumina & hypochlorite of lime.

Boilers, 4 water-tube 400-hp. B. & W.; gas fuel; pumps, 2-3,000,000 gal. ea. Drysdale d. con. to elec. motors, 325 kw. 2200 v. 3 ph. 60 cys. Siemens; pumping to reservoir, 2,330,000 gal. and standpipe, 500,000 gal. steel.

Pipe, 38.5 mi. 4 to 30-in. c. i. & wood; hyd. 177; hose con. 2½-in. Vulcan & R. D. W.; valves, 252 l. h. opening; av. daily cons. 2,800,000 gal.; serv. con. 2900; ord. pres. 40 to 90 lb., fire pres. same.

Rates, flat, $13 year, bath $3, closet $3.

PINCHER CREEK, 1,027.

MUNICIPAL WATER & LIGHT CO., LTD.

Pres. & Gen. Mgr.,
J. E. Woods.....Pincher Creek
Supt., F. W. Forster..... " "

Pincher Creek; 2 mi. center business section; gravity distribution from reservoir.

Pipe, 5 mi. 4 to 8-in. wood; hyd. 22, hose con. 2½-in. Kupferle; valves, 30, l. h. opening Pratt & Cady; serv. con. 170; ord. pres. 75 lb., fire pres. same.

Rates: flat $1.50 month, bath 20c., closet 20c.

RAYMOND, 1,465.

MUNICIPAL.

Supt., I. Powell.....Raymond

Springs; 2 mi. center business section; pumps driven by gas engines, 5 & 11-hp.; pumping d. & to tank; pipe, 8 mi. 4 to 10-in. wood; hyd. 4; av. daily cons. 18,000; serv. con. 110; ord. pres. 25 lb.

RED DEER, 2,118.

MUNICIPAL.

Mayor, J. A. Carswell.....Red Deer
Comr., A. T. Stephenson..... "

Engr. P'g. Sta., J. T. Watson....Red Deer

Red Deer River and wells, 2 tubular 16-in. 25 ft. deep; ½ mi. center business section; settling basins, 2.

Boilers, 2 125-hp. ea. 125 lb. Robb 1904, 200-hp. 125 lb. Amherst, 1907; pumps, 2-1,000,000 gal. ea. hor. comp. d. act Knowles 1905 & 1910; steam engines, 125-hp. Robb 1904, 350-hp. Corliss-Robb 1907; pumping direct.

Pipe, 7 mi. 6 to 10-in. c. i., wood & steel; hyd. 35, hose con. 2½-in. Fairbanks & Calgary; valves, l. h. opening; meters, 3 Hercules; serv. con. 308; ord. pres. 35 lb., fire pres. 80 to 120 lb.

Rates: flat, $7 year, bath $1, closet, $1; meter, min. charge $3 quarter 1200 cu. ft. 25c. 100 cu. ft. max., 10c. min.

STETTLER, 1,414.

MUNICIPAL.

Mayor, William Dunlap.....Stettler
City Sec., Lewis C. Harry..... "
Cons. Engr.,
John Galt Engineering Co.....Calgary
Engr. P'g. Sta., J. Jamieson.....Stettler

Wells, 5-ft. diam. 100-ft. deep; ¼ mi. from center business section; reservoir, 50,000 gal.; no purification.

Boilers, 2 return tubular 100-hp. ea. 122 lb. Waterous 1910 & McDougal 1911; hand stoking; pumps, 1-720,000 gal. hor. comp. d. act. Worth. 1910, 1-360,000 gal. vert. single Blake 1910; steam turbine hor. 140-hp. Robb. 1911; pumping to elev. tank (1910) 50,000 gal. steel, Des Moines Bridge & Iron Works.

Pipe, 0.8 mi. 10-in. c. i.; hyd. 10, hose con. 2½-in. Vulcan; meters, 12 Neptune, av. daily cons. 2,000 gal. 100%; serv. con. 20; ord. pres. 46 to 54 lb. fire pres. 80 to 100 lb.

Rates: flat $1.50 month; meter, min. charge $1.50 month, 200 cu. ft., 60c. 100 cu. ft. max., 35c. min.

TABER, 1,400.

MUNICIPAL.

Supt., W. E. Porter.....Taber

Belly River; 2 mi. center business section; pump, steam; pumping to tank.

Pipe, 6 mi. 6 to 10-in. c. i.; hyd. 32; av. daily cons. 8000 gal.; serv. con. 150; ord. pres. 40 lb., fire pres. 70 lb.

WETASKIWIN, 2,411.

MUNICIPAL.

Supt., W. L. Crame.....Wetaskiwin

Wells; ½ mi. center business section; pumps driven by gas engine; pumping to elev. tank, 175,000 gal.

Pipe, 5.5 mi. 6 to 10-in. c. i.; hyd. 48; serv. con. 50; ord. pres. 70 lb., fire pres. 100 to 110 lb.

BRITISH COLUMBIA

BURNABY.

MUNICIPAL.

Supt., Fred. Stevens.....Edmonds
City Engr., Fred. L. Macpherson. "
City Clerk, Arthur G. Moore.....Burnaby

Supply taken from 24-in. main of the City of Vancouver.

Pumps, 1-960,500 gal. hor. centrifugal Byron Jackson 1912 d. con. to elec. motor, 50-hp. 220 v. 3 ph. 60 cys. Lancashire 1912, 1-960,500 gal. hor. centrifugal Byron Jackson 1912 d. con. to elec. motor, 50-hp. 220 v. 3 ph. 60 cys. Lancashire 1912, 1-2,880,000 gal. hor. centrifugal Bovine 1914 d. con. to elec. motor, 75-hp. 220 v. 3 ph. 60 cys. Westg. 1914; pumping direct & to reservoirs, 3-1,200,000 gal. & elev. tanks 5 (1912) 236,000 gal. wood & steel.

Pipe, 108 mi. 3 to 24-in. steel; hyd. 97, hose con. 2½-in. Terminal; valves, 600 r. h. opening various; meters, 105 Neptune & National; av. daily cons. 1,000,000 gal.; serv. con. 2850; ord. pres. 30 to 85 lb., fire pres. 50 to 85 lb.

Rates: flat, $8.70 year; meter, min. charge $1 mo., 16c. 100 cu. ft. max., 6c. min.

CRESTON, *1,000.

GOAT MOUNTAIN WATER WORKS CO., LTD.

Pres. & Gen. Mgr., E. Mallandaine, Creston
V. Pres., F. G. Little..... "
Sec. & Treas., J. Mallandaine..... "

Springs; 2.5 mi. from center business section; reservoirs, 2-200,000 gal.; no purification; gravity distribution.

Pipe, 4 mi. 4 & 8-in. wood; hyd. 3, hose con. 2½-in.; valves, 4 r. h. opening; meters, 3 Buffalo; av. daily cons. 30,000 gal. 75%; serv. con. 300; ord. pres. 120 to 135 lb., fire pres. same.

Rates: flat, $1.75 mo., bath 50c., closet 50c.

CUMBERLAND, 1,237.

CUMBERLAND & UNION WATERWORKS CO., LTD.

Pres., J. R. Lockard.....Cumberland
Sec., G. K. McNaughton..... "
Treas., G. W. Clinton..... "
Supt., W. Harrison..... "

Stevenson & Hamilton Lakes; 2 mi. from center business section; reservoir, 800,000 gal.; gravity distribution.

Pipe, 4 & 8-in. lock joint; hyd. 12, hose con. 2-in. F. M.; valves, 21 l. h. opening Crane; service con. 575; ord. pres. 170 to 180 lb., fire pres. same.

Rates: flat, $1.25 mo., closet 50c.

DUNCANS, 600.

THE COUICHAN WATER WORKS CO., LTD.

Mgr., E. A. Price.....Duncans

Skinner Creek; 2.25 mi. from center business section; pumping direct & to reservoir, 750,000 gal.

Pipe, 5 mi. 4 to 8-in. wood; hyd. 8; serv. con. 146; ord. pres. 60 lb.

ENDERBY, *1,000.

MUNICIPAL.

Mayor, S. Polson.....Enderby
City Clerk, Graham Roseman..... "
Supt., R. N. Bailey..... "

Mountain stream; 4.5 mi. from center business section; settling tank; no purification; gravity distribution.

Pipe, 5 mi. 4 & 6-in. wood; hyd. 18, hose con. 2½-in. Kerr & Ludlow; valves, 14 r. h. opening Kerr; meters, none; av. daily cons. 50,000 gal.; serv. con. 230; ord. pres. 60 to 170 lb., fire pres. 60 to 155 lb.

Rates: flat, $1.50 mo.

ESQUIMALT, *1,000.

ESQUIMALT WATERWORKS CO. Office, Victoria. Supplies water to Esquimalt Peninsula.

Loon & Jack Lakes; gravity distribution.

Pipe, 10.5 mi. 31-in.; hyd. 27; av. daily cons. 400,000 gal.; serv. con. 1050.

Rates: meter, 30c. 1000 gal. max., 20c. min.

FERNIE, 3,146.

MUNICIPAL.

City Clerk, A. J. Moffatt.....Fernie
City Engr., Wm. Ramsay..... "
Supt., J. DeLuca..... "

Mountain stream; 3 mi. from center business section; reservoir, 60,000 gal.; no purification; gravity distribution from reservoirs, 2-800,000 gal.

Pipe, 13 mi. 1½ to 12-in. w. i. & wood; hyd. 52, hose con. 2½-in. Kerr & Crane; valves, 130 l. h. opening; meters, 2 Hersey; serv. con. 700; ord. pres. 60 to 90 lb., fire pres. same.

Rates: flat, $1.50 mo., bath 50c., closet 25c.; meter, 40c. 1000 gal. max., 4c. min.

GRAND FORKS, 1,577.

MUNICIPAL.

Mayor, R. Gaw.....Grand Forks
City Clerk, John Hutton..... " "
Engr. P'g. Sta., F. W. Reid... " "

Impounding reservoirs, 2-3,500,000 gal.

Pumps, 1-800,000 gal. vert. triplex Platt 1900 belted to elec. motor, 50-hp. 2200 v. 3 ph. 60 cys. Westg. 1900, 1-1,440,000 gal. hor. centrifugal McDougal 1905, d. con. to elec. motor, 100-hp. 2200 v. 3 ph. 60 cys. Westg. 1905; elec. energy from West Kootenay Power Co.; pumping direct to reservoir, 500,000 gal. & to standpipe (1900) 100,000 gal. steel.

Pipe, 14 mi. 2 to 12-in. galv. i. & wood; hyd. 52, hose con. 2½-in. Ludlow; valves, 110 l. h. opening Crane; meters, none; av. daily cons. 500,000 gal.; serv. con. 600; ord. pres. 105 to 125 lb., fire pres. same.

Rates: flat $1.50 mo., bath 50c., closet 50c.

KAMLOOPS, 3,772.
MUNICIPAL ELECTRIC LIGHT & WATERWORKS COMMISSION.
City Clerk, J. J. Carment..... Kamloops
Supt. & Pur. Agt., C. L. Wain... "
Cons. Engrs,.
DuCane Dutcher & Co.....Vancouver
Thompson River; one mi. from center business section; impounding reservoirs, 2-1,750,000 gal.
Boilers, two 250-hp. ea. 160 lb. B. & W.; hand stoking; pumps, 2-2,000,000 ea. hor. centrifugal Platt 1913 d. con. to elec. motors, two 200-hp. ea. 2200 v. 3 ph. 60 cys. G. E. 1913, 1-2,000,000 gal. hor. centrifugal Platt 1913 d. con. to steam turbine, 200-hp. Kerr 1913; pumping direct & to reservoirs above.
Pipe, 17 mi. 4 to 16-in. c. i. & steel; hyd. 104, hose con. 2½-in. Ludlow; valves, 200 l. h. opening various; meters, 200 Pittsburgh; av. daily cons. 850,000 gal. 85%; serv. con. 1155; ord. pres. 125 to 140 lb., fire pres. same.
Rates: flat, $1.50 mo., bath 25c., closet 25c.; meter, 35c. 1000 gal. max., 10c. min.

KASLO, 1,100.
MUNICIPAL.
Comr., R. A. Cockle.....Kaslo
Kaslo Creek; 3 mi. from center business section; gravity distribution from reservoirs, 2-42,000 gal.
Pipe, 2 mi. 3 to 10-in. steel; hyd. 22; av. daily cons. 28,000 gal.; ord. pres. 72 lb.

KELOWNA, 1,663.
MUNICIPAL LIGHT & WATER COMMISSION.
Comr., W. E. Adams.....Kelowna
" D. W. Sutherland..... "
" W. C. Duggan..... "
Sec., G. H. Dunn..... "
Engr. P'g. Sta., S. D. Colquette... "
Okanagan Lake; ¼ mi. from center business section.
Boilers, 3 return tubular 75-hp. ea. 120 lb., 2 Robb 1908 & one Goldie McCulloch 1913; hand stoking; pumps, 1-18,000 gal. duplex F. M. 1908, 1-14,000 gal. duplex Canada 1911; steam engines, 95-hp. Robb 1911, 200-hp. Robb 1908, 325-hp. Goldie McCulloch 1915; pumping direct.
Pipe, 14.5 mi. 4 to 8-in. wood; hyd. 44, hose con. 2½-in.; valves, 66; meter, 275 Buffalo; ord. pres. 50 lb., fire pres. 120 lb.
Rates: meter, min. charge $1.80 mo. 4000 gal., 15c. 1000 gal.

LILLOOET, *300.
LILLOOET WATER WORKS. (Privately owned.)
Owner, S. A. Macfarlane.....Lillooet
Mountain stream; ¾ mi. from center business section; settling & coagulating tanks, 4000 gal.; gravity distribution from standpipe (1903).
Pipe, 1.5 mi. 3 to 5-in. steel; hyd. 4, hose con. 2½-in.; valves, 5 l. h. opening; serv. con. 60; ord. pres. 117 to 135 lb., fire pres. same.
Rates: flat $1 mo.

MICHEL, *4,000.
MICHEL WATER, LIGHT & POWER CO., LTD.
Pres., Dr. L. C. Weldon.....Michel
Sec., Treas. & Mgr.,
D. D. Stedman.....New Michel
Aqueduct Creek; one mi. from center business section; gravity distribution from reservoir, 60,000 gal.
Pipe, 1.5 mi. 8 to 10-in. wood; hyd. 6; av. daily cons. 24,000 gal.; serv. con. 62; ord. pres. 96 lb.
Rates: flat, $18 year.

MOYIE, *300.
MOYIE WATER CO., LTD.
Pres., P. F. Johnson.....Cranbrook
V. Pres., Philip Conrad.....Moyie
Sec., C. A. Foote..... "
Treas., Victor Desaulnier..... "
Campbell Creek & reservoir; 1000 ft. from center distribution; no purification.
Gravity distribution from reservoir.
Pipe, one mi. 2 to 6 in. c. i.; hyd. 9, hose con. 2½-in.; valves, 4 r. h. opening; serv. con. 30; ord. pres. 90 lb.
Rates: flat, $2.50 mo.

NELSON, 4,476.
MUNICIPAL FIRE, WATER & LIGHT COMMISSION.
Chmn., A. Leith.....Nelson
Comro., T. Stark..... "
" A. Hooswell..... "
City Clerk, W. E. Wasson..... "
Supt., G. C. Mackay..... "
Streams; 2 mi. from center business section; gravity distribution from reservoir, 1,000,000 gal.
Pipe, 17.5 mi. 2 to 14-in. w. i.; hyd. 61, hose con. 2½-in. Ludlow; valves, 83 l. h. opening Crane; av. daily cons. 1,000,000 gal.; serv. con. 1279; ord. pres. 25 to 180 lb., fire pres. 40 to 180 lb.
Rates: flat, $1.50 mo., bath, 25c., closet 25c.

NEW WESTMINSTER, 13,199.
MUNICIPAL.
Supt., John Aukles.....New Westminster
City Engr., J. W. Blackman " "
Chemist, F. W. Whittick. " "
Kake Coquillam; 14 mi. from center business section; no purification; gravity distribution from reservoir, 3-4,400,000 gal.
Pipe, 65.75 mi. one to 22-in. wood, galv. i., w. i., c. i. & steel; hyd. 155, hose con. 2½-in. Michigan & Ludlow; valves, 155 r. h. thd.; meters, 230 Neptune; av. daily cons. 85,000 gal., ord. pres. 40 to 86 lb., fire pres. 40 to 108 lb.
Rates: flat, $1.62 mo. including bath & closet.

NORTH VANCOUVER, 8,196.
MUNICIPAL WATER WORKS COMMISSION.
Chmn., Thos. Kennedy...North Vancouver
Comr., C. F. Forman..... " "
" H. McDonald..... " "
City Clerk, J. F. Colins... " "
Supt., G. D. Grant..... " "
Impounding reservoir & Lynn Creek, 300,000,000 gal.; settling basins, 2-25,000 gal.; gravity distribution.
Pipe, 50 mi. 4 to 16-in. c. i. steel & wood; hyd. 275, hose con. 2½-in. Canadian; valves, 800 r. h. opening; meters, none; av. daily cons. 1,200,000 gal.; serv. con. 3,000; ord. pres. 60 to 150 lb., fire pres. 100 to 285 lb.
Rates: flat, $12 6-mo.

PENTICTON, 3,300.
MUNICIPAL.
Chmn. Comrs., J. Anderson.....Penticton
City Clerk, B. C. Bracewell..... "
Supt., W. H. Murfitt..... "
Des. Engr., F. H. Latimer..... "
Penticton Creek; 4 mi. from center business section; gravity distribution by reservoir, 100,000 gal.
Pipe, 18.48 mi. 2 to 14-in. c. i. galv. i .& steel; hyd. 58, hose con. 2½-in. Ludlow; valves, 246 r. h. opening Crane; meters, 236 Neptune, ord. pres. 81 to 102 lb., fire pres. 100 to 175 lb.
Rates: flat, $4.50 quarter, bath $1, closet $1; meter, min. charge $3 quarter, 15c. 1000 gal. max., 10c. min.

POINT GREY, 16,000.
MUNICIPAL WATER & SEWERAGE COMMISSION.
Chmn., M. R. Wills.....Point Grey
Comr., S. G. Churchill..... " "
City Clerk, G. G. Highway..... " "
Supt. & City Engr., Wm. B. Grieg " "
Buy water from the city of Vancouver. See Vancouver.
Gravity distribution from reservoir, 3,-000,000 gal.; pipe, 104 mi. 4 to 24-in. steel; hyd. 379, hose con. 2½-in.; valves, 1451; meters, 1861 Neptune; av. daily cons. 625,000 gal., serv. con. 2220; ord. pres. 37 to 150 lb., fire pres. same.
Rates: meter, min. charge 50c. mo. 16c. 100 cu. ft. max., 14c. min.

REVELSTOKE, 4,000.
MUNICIPAL.
Mayor, W. A. Foote.....Revelstoke
Chmn. Comr., F. H. Bourne.... "
City Clerk, W. Gordon..... "
Supt., A. S. Lundell..... "
Mountain streams; ¼ mi. from center distribution; reservoirs, 2-150,000 gal.
Gravity distribution from reservoirs, 2-75,000 gal. ea.; pipe, 12 mi. 2 to 12-in. c. i. & wood; hyd. 49, hose con. 2½-in. Ludlow; valves, 50 l. h. opening; av. daily cons. 800,000 gal.; serv. con. 735; ord. pres. 110 lb.
Rates: flat, $1.50 mo., bath 25c., closet 25c.

ROSSLAND, 2,826.
MUNICIPAL.
Supt., J. A. McLeod.....Rossland
Springs & reservoirs, 3-3,600,000 gal.; 7 mi. from center business section; gravity distribution.
Pipe, 9 mi. 4 to 14-in. c. i. & wood; hyd. 36; serv. con. 800; ord. pres. 80 to 250 lb.
Rates: flat, $24 year, bath & closet $12; meter, 75c. 1000 gal. max., 45c. min.

SANDON, 400.
SANDON WATER WORKS & LIGHT CO.
Supt., J. M. Harris.....Sandon
Impounding reservoirs on mountain streams, 3-160,000 gal.; one mi. from center business section; gravity distribution.
Pipe, 1.5 mi. 4 to 14-in. steel; hyd. 12; av. daily cons. 300,000 gal.; serv. con. 50; ord. pres. 138 to 178 lb.
Rates: flat, $18 year.

SOUTH VANCOUVER, 16,126.
MUNICIPAL.
Supt. & Engr.,
S. B. Bennett.....South Vancouver
Supplied by the city of Vancouver. See Vancouver.
Gravity distribution from elev. tanks, 3 (1911) 1,500,000 gal.

TRAIL, 2,000.
MUNICIPAL WATER & LIGHT COMMISSION.
Chmn., R. S. Day.....Trail
Comr., J. H. Rose..... "
" H. W. Stone..... "
City Clerk, E. B. Monypenny..... "
Springs & reservoirs; 2-250,000 gal.; ½ mi. from center business section; gravity distribution.
Pipe, 11 mi. one to 6-in. c. i. & wood; hyd. 20, hose con. 2½-in.; valves, 2; serv. con. 349; ord. pres. 120 lb.
Rates: flat, $1.50 mo., bath 50c. closet 50c.

VANCOUVER, 123,902.
MUNICIPAL. Supplies water to Point Grey & South Vancouver.
City Engr., J. P. Fellowes.....Vancouver
Supt. & Asst. Engr.,
J. L. Breckon..... "
Sec., J. S. Montgomery..... "
Chemist, H. Vance..... "
Creeks; settling basins, 2-200,000 gal. ea. gravity distribution from reservoirs 2-35,-000,000 gal.
Pipe, 314.2 mi. steel; hyd. 1807, hose con. 2½ & 4-in. Ludlow; valves, 579 r. & l. h. opening; meters, 340 National, Neptune & Buffalo; av. daily cons. 15,000,000 gal. 90%; serv. con. 27,286; ord. pres. 80 to 120 lb., fire pres. 80 to 140 lb.

VERNON, 2,671.

MUNICIPAL.

Mayor, W. H. Smith.....Vernon
Chmn. Comrs., R. V. Clement..... "
City Clerk, D. T. Tate..... "
Supt., R. B. Hammond..... "
Cons. Engr., Cummings & Agnew... "

Impounding reservoirs, 3-21,500,000 gal.; 2 mi. from center business section; gravity distribution.

Pipe, 10 mi. 4 to 12-in. c. i.,; steel & wood; hyd. 40; serv. con. 550; ord. pres. 125 lb.

Rates: flat, $12 year, bath $3.

VICTORIA, 31,660.

MUNICIPAL.

Comr., C. H. Rust.....Victoria
Supt. & Engr. P'g. Sta.,
Thos. Preece.....Victoria

Sooke Lake, 130,000,000 gal.; 32 mi. from center business section.

Pumps, 1-3,500,000 gal. hor. comp. c. & f. wh. 1909, 1-3,000,000 gal. d. act. 1901; elec. energy from British Columbia Electric Railway Co.; gravity distribution from reservoir, 16,000,000 gal. & standpipe (1909) 100,000 gal. concrete.

Pipe, 130.5 mi. 4 to 27-in. c. i. & steel; hyd. 784, hose con. 2½-in. Ludlow; valves, 1487 r. h. opening various; meters, 9000 mostly Neptune; av. daily cons. 3,500,000 gal.; serv. con. 9400; ord. pres. 30 to 90 lb., fire pres. 65 to 150 lb.

Rates: meter, min. charge $1 mo. 2000 gal., 22.5c. 1000 gal. max., 10c. min.

MANITOBA

BRANDON, 13,839.

MUNICIPAL.

City Eng'r., R. E. Speakman.....Brandon
Engr. P'g. Sta., A. W. Shaw..... "
Foreman, Wm. Smith..... "

Assiniboine River; 1.25 mi. center business section; mechanical filters, 8-500,000 gal. ea.; chemical, sulphate of alumina.

Boilers, 6 fire tube 600-hp. Leonard & Inglis; hand & mechanical filters, Green Chain Grate; pumps, 4-4,200,000 gal. Builders, Allis-Chalmers & Inglis; pumping direct.

Pipe, 29 mi. 4 to 12-in. c. i.; hyd. 150, hose con., 2½-in. Ludlow; meters, 1700 National; av. daily cons. 1,400,000 gal.; serv. con. 1800; ord. pres. 70 to 100 lb. fire pres. 100 to 140 lb.

Rates: flat $10 year; meters, 25c. 100 cu. ft. max., 6c. min.

CARMAN, 1,271.

MUNICIPAL.

Supt., F. S. McCoy.....Carman

Boyne River; near center business section; pumping to elev. tank, 60,000 gal. reservoir 20,000 gal.

Pipe, 2.5 mi. 4 to 10-in. wood; hyd. 22; av. daily cons. 24,000 gal.; serv. con. 46; ord. pres. 50 lb., fire pres. 50 to 130 lb.

Rates: flat, $12 year.

CARBERRY, 878.

MUNICIPAL. For fire protection only.

Wells, pumps, pumping to reservoir, 35,000 gal.

Pipe, 1.5 mi. 4 to 8-in. wood; hyd. 25; ord. pres. 100 lb.

DAUPHIN, 2,815.

MUNICIPAL.

Manager, John Watson.....Dauphin

GRAND VIEW, 637.

MUNICIPAL.

Supt., Peter Hume.....Grand View

Valley River; ¼ mi. from center of busisiness section; pump driven by gasoline engine, 6-hp.; pumping direct and to tank, 30,000 gal.; filters, charcoal.

Pipe, one mi. 2 & 2½-in. c. i.; hyd. 7; av. daily cons. 10,000 gal. serv. con. 100.

NEEPAAWA, 1,863.

OWNERSHIP NOT REPORTED.

Supt., E. G. Balkwill.....Neepaawa
Cons. Engrs.,
Chipman & Power..Toronto & Winnipeg

Springs & impounding reservoirs; mechanical filters, 350,000 gal.; chemical, sulphate of alumina.

Boilers, 2 return tubular 150-hp. ea. 130 lb. Goldie & McCulloch 1914; hand stoking; pumps, 1-144,000 gal. hor. simple dir. act. F. M. 1913; 1-450,000 gal. vert. triplex Gould 1913 geared to elec. motor, 50-hp. 220 v. 3 ph. 60 cys. F. M. 1913; pumping to standpipes (1911); ord. pres. 100 to 150 lb.

PORTAGE LA PRAIRIE, 5,892.

MUNICIPAL WATERWORKS COMMISSION.

Chmn., Mr. Pratt .....Portage La Prairie
Comr., Mr. Broker..... "
" Mr. Derrich..... "
Sec., W. R. Grieves..... "
Supt. & Engr., P'g Sta.,
Robert Pride..... "
Cons. Engr., Chipman & Power,
206 Mail Bldg., Toronto, Ont.

Assiniboine River; 3 mi. center business section.

Boilers, 2 return tubular 100-hp. ea. 125 lb. Goldie & McCullough 1913; hand stoking; pump 1-1,000,000 gal. hor. comp. d. act. Bethlehem 1905, 1-1,000,000 gal. hor. comp. d. act. F. M. 1908, 2-720,000 gal. hor centrifugal Canada 1910 belted to elec. motor, 50-hp. 2200 v. 3 ph. 60 cys. G. E 1910; air compressors 2-400 cu. ft. Ingersoll Rand 1905 & 1912; oil engines, 40-hp Blackstone 1909; pumping to standpipe to (1905) (1914) 550,000 gal.

Pipe, 16 mi. 6 to 12-in. c. i. & wood; hyd. 156, hose con. 2½-in. R. D. W.; valves, r. h. opening, R. D. W.; meters, 560 mostly Empire; av. daily cons. 300,000 gal.; serv. 560; ord. pres. 35 to 45 lb., fire pres. 100 to 125 lb.

Rates: meters, min. charge $1.25 month, 6000 gal., 40c. 1000 gal. max., 7c. min.

ST. BONIFACE, 7,483.

MUNICIPAL.

City Engr., W. P. Blair.....St. Boniface

Wells, 8 artesian 12-in. 350-ft. deep; 1 mi. from center business section; reservoir, 1,000,000 gal.; no purification.

Boilers, 3 return tubular, 60-hp. Mumford; hand stoking; pumps, 2-1,000,000 gal. Canada; elec. motor, 137 kw. 550 v. 3 ph. 60 cys. Canada; elec. energy from Winnipeg Hydro Electric Co.; pumping to elev. tank, 86,000 gal.

Pipe, 24.5 mi. 4 to 12-in. c. i.; hyd. 173, hose con. 2½-in. R. D. W.; meters, 1500 National; av. daily cons. 355,000 gal. serv. con. 1500; ord. pres. 64 lb. fire pres. 100 lb.

Rates: meters, min. charge, $2 quarter, 50c. 1000 gal.

SOURIS, 1,854.

MUNICIPAL.

Town Engr., D. P. Smith.....Souris

Wells; near center of business section; pumps driven by gas engine; reservoir, 30-ft. diam. 36-ft. deep; pumping to compressed air tank.

Pipe, 12 mi. 4 to 8-in. c. i.; hyd. 76; serv. con. 110.

Rates: meters, 50c. 1000 gal. max., 40c. min.

TRANSCONA, *3,500.

MUNICIPAL.

City Engr., W. M. Scott,
204 Sterling Bank Bldg., Winnipeg

Wells, 2 tubular 15-in. 218 & 220 ft. deep; 1.5 mi. center business section; pump driven by elec. motor; pumping direct and to reservoir.

Pipe, 6 to 20-in. c. i.; hyd. 92, hose con. 2½ & 4-in. Kennedy; valves, 126 l. h. thd. McAvity; meters, none; ord. pres. 50 lb. fire pres. 100 lb.

WINNIPEG, 136,035.

MUNICIPAL.

City Engr., W. P. Brereton.....Winnipeg
Supt., Thomas H. Hooper..... "
Cons. Engr., H. N. Ruttan..... "
Engr. P'g. Sta., T. Musgrove..... "
Chemist, A. Blackie.....Winnipeg

Wells, 29 artesian 18-in. 55 to 363 ft. deep; reservoir, 3-24,300,000 gal.; 15 mi. north business section; no purification.

Pump, 1-5,000,000 gal. comp. Worth. 1905, 1-5,000,000 gal. tri. exp. Worth., 1907, 1-2,000,000 gal. R. D. W. 1906 driven by elec. motor, 1-2,500,000 gal. R. D. W. 1906 driven by elec. motor, 1-2,500,000 gal. McDougall 1907, driven by elec. motor, 1-5,000,000 gal. centrifugal McDougall, 1-5,000,000 gal. tri. exp. McDougall 1901; elec. energy from Winnipeg Light & Power Dept., pumping to reservoir.

Pipe, 272.9 mi. 4 to 36-in. c. i. & steel; hyd. 2079, hose con. 2½ & 4-in.; valves, 3961; meters, 27,680 various; av. daily cons. 8,500,000 gal.; serv. con. 33,583; ord. pres. 30 to 40 lb., fire pres. 80 lb.

NEW BRUNSWICK

ANDOVER, *500.

MUNICIPAL.

Brook; one mi. center business section; gravity distribution from reservoir, 150,000 gal.

Pipe, 2 mi. 6-in. c. i.; hyd. 20; av. daily cons. 20,000 gal.; ord. pres. 52 lb.

Rates; flat, $5 year.

CAMPBELLTON, 3,816.

MUNICIPAL. Water & Sewerage Commission.

Chmn., Charles A. Alexander. Campbellton
Mayor, Albert A. Andrew..... "
Supt., R. J. Sandover..... "

Parker & Smith Lakes; 5 mi. center business section; gravity distribution from reservoir, 5,000,000 gal.

Pipe, 13 mi. 4 to 16-in. c. i.; hyd. 55, hose con. 2½-in. Ludlow, Pratt & Cady & Chapman; valves, 80, r. h. opening; meters, 8 National & Buffalo; av. daily cons. 225,000 gal.; serv. con. 800; ord. pres. 45 to 85 lb., fire pres. same.

Rates; flat, $8 year.

CHATHAM, 4,662.

MUNICIPAL.

Supt., Alex. MacKay.....Chatham

Brook; 3.5 mi. center business section; pump, steam 65 to 150-hp.; pumping direct and to standpipe, 480,000 gal.

Pipe, 9.5 mi. 4 to 12-in. c. i.; hyd. 65; serv. con. 360; ord. pres. 38 to 71 lb., fire pres. 100 lb.

Rates; flat, $5 year, bath & closet, $4.

DALHOUSIE, 1,650.

MUNICIPAL.

Supt., Wm. A. Gallop.....Dalhousie

Brook; 2.5 mi. center business section; gravity distribution from reservoir, 1,000,000 gal.

Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 28; serv. con. 170; ord. pres. 80 to 85 lb.

Rates; flat $10 year.

FREDERICTON, 7,208.

MUNICIPAL.

Supt., John L. Feeney.....Fredericton

St. Johns River; one mi. from center business section; mechanical filters; pumps, steam; pumping to reservoir, 391,500 gal.

Pipe, 13.5 mi. 3 to 14-in. c. i.; hyd. 106; av. daily cons. 529,500 gal.; serv. con. 1288; ord. pres. 40 lb., fire pres. 85 to 90 lb.

Rates; flat, $5 year, bath & closet $3; meter, 25c. 1000 gal. max. 10c. min.

GIBSON, 1,500.

MUNICIPAL.

Well; 1.5 mi. center business section; pump, steam and windmill; pumping to reservoir, 280,000 gal.

Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 17; serv. con. 140; av. daily cons. 500,000 gal.; ord. pres. 68 lb.

Rates; flat $5 year.

HARTLAND, 700.

MUNICIPAL. Hartland Village Fire & Water Commissioners.

Comr., Dr. I. B. Coates.....Hartland
" J. E. McCollum..... "
" A. E. Plummer..... "
Sec.-Treas., T. G. Simms..... "

Springs; ¾ mi. from center business section; pumps, 1-140,000 gal. vert. triplex F. M. 1912 belted to gasoline engine, 15-hp. F. M. 1911.

Pipe, ¾-mi. 4 & 6-in. c. i.; hyd. 13, hose con. 2½-in.; serv. con. 90; ord. pres. 50 lb., fire pres. 60 to 90 lb.

Rates; flat, $4 year.

MILTON, 1,804.

Supplied by the MAINE WATER COMPANY, Calais, Maine.

MONCTON, 11,345.

MUNICIPAL.

Supt., J. Edington.....Moncton
City Clerk, J. S. MacGee..... "
Engr. P'g. Sta., J. P. Weir..... "

Impounding reservoirs, 2-500,000 gal.

Pumps, 2-2,880,000 gal. centrifugal Canada 1903 d. con. to elec. motors, two 75-hp. ea. 1100 v. 3 ph. 60 cys. Canadian 1903, 1-5,000,000 centrifugal Canada 1914, rope driven from gas engine, 450-hp. Primer, 1914; elec. energy from Moncton Cramway Electric Gas Co.; pumping direct.

Pipe, 32.4 mi.; 4 to 20-in. c. i.; hyd. 123, hose con. 2½-in. R. D. W.; meters, 10 Neptune; av. daily cons. 1,000,000 gal.; serv. con. 2000; ord. pres. 25 to 50 lb., fire pres. 75 to 100 lb.

Rates; flat, $15 year; meter, 25c. 1000 gal. max. 10c. min.

NEWCASTLE, 2,945.

MUNICIPAL.

Chmn. Comrs., S. W. Miller.....Newcastle
Comr., G. G. Stothart..... "
" A. McCabe..... "
Supt. & Engr. P'g. Sta.,
J. W. Murray..... "

Artesian wells, two 6-in. 250 ft. deep; near center business section; no purification.

Boilers, 2 return tubular 75-hp. ea. 110 lb. Canada 1893, one water-tube 175-hp. 110 lb. Canada 1907; hand stoking; pumps, 1-1,080,000 gal. hor. comp. d. act. Canada 1893, 1-1,440,000 gal. hor. simple d. act. F. M. 1907; pumping to reservoir, 150,000 gal.

Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 52, hose con. 2½-in. Canada; av. daily cons. 200,000 gal. 60%; serv. con. 350; ord. pres. 60 to 85 lb., fire pres. 85 to 125 lb.

Rates; flat, $8 year, bath $2, closet $3.

PERTH, *500.

MUNICIPAL.

Chmn. Comrs., A. N. Dickinson.....Perth
Comr., J. W. McPhail..... "
" C. W. Lewis..... "

Sec., James Anderson.....Perth
Lailee Brook; 1.5 mi. from center business section; gravity distribution from reservoir, 250,000 gal.

Pipe, 2.5 mi. 3 to 6-in. c. i; hyd. 14, hose con. 2½-in. Ludlow; valves, 8 l. h. opening; serv. con. 80; ord. pres. 25 to 55 lb., fire pres. same.

Rates; flat, $6 year including bath & closet.

SACKVILLE, *4,000.
MUNICIPAL.
Mayor, A. E. Wry.....Sackville
Town Clerk, Thos. Murray..... "
Supt., S. W. Topp..... "
Springs & reservoirs, 15,000,000 gal.; 4 mi. from center business section; gravity distribution.

Pipe, 12 mi. 4 to 14-in. c. i.; hyd. 35, hose con. 2½-in. Allis-C; valves, l. h. opening Kerr; meters, none; serv. con. 400; ord. pres. 50 to 85 lb.

Rates; flat, $7 year, bath $2, closet $2.

ST. JOHN, *52,800.
MUNICIPAL. Water & Sewerage Commission.
Comr., R. W. Wigmore.....St. John
Supt., David B. Doig..... " "
City Engr., William Murdoch..... " "
Spruce & Ludgate Lake; 7 mi. from center business section; no purification; gravity distribution.

Pipe, 55 mi. 4 to 30-in. c. i.; hyd. 462, hose con. 2½-in. various; valves, 146 r. h. thd.; meters, 205; av. daily cons. 10,907,000 gal.; serv. con. 6692; ord. pres. 14 to 92 lb.

ST. MARYS, *900.
VILLAGE WATER & FIRE COMMISSION.
Comr., John T. Machun.....St. Marys
" Kenneth McLaggan..... " "
" Geo. J. Bolder..... " "
Wells, two 5 & 8-in. 200 ft. deep; ¾ mi. from center business section; gravity distribution from reservoir, 250,000 gal.

Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 21, hose con. 2½-in. Pratt & Cady; valves, 18 l. h. opening Kerr; av. daily cons. 25,000 gal.; serv. con. 136; ord. pres. 53 lb.

Rates; flat, $5 year, bath $3, closet $5; meter, 25c. 1000 gal. max., 15c. min.

ST. STEPHEN, 2,836.
MUNICIPAL.
Chmn. Comrs.,
Edward C. Keys.....St. Stephen
Comr., R. W. Guymer..... " "
Supt. & Sec., A. A. Laflin..... " "
Engr. P'g. Sta., S. E. Weloch .. " "
Well, 30 ft. in diam. 20 ft. deep; 4 mi. from center business section; pumps, 2-176,000 gal. vert. triplex Olds 1906 d. con. to gas engines, two 135-hp. ea. Olds 1906; pumping direct & to reservoir, 1,000,000 gal.

Pipe, 14 mi. 6 to 16-in. c. i.; hyd. 56, hose con. 2½-in. Chapman & Pratt & Cady; meters, 45 National & Neptune; av. daily cons. 400,000 gal.; serv. con. 728; ord. pres. 80 to 130 lb., fire pres. same.

Rates; flat, $7 year, bath $5, closet $5; meter, min. charge $20 year 8700 cu. ft., 23c. 100 cu. ft. max., 4c. min.

SUSSEX, 1,906.
MUNICIPAL.
City Clerk, J. A. Freze.....Sussex
Engr. P'g. Sta., P. D. Mills..... "
Creek.
Boiler, return tubular 80-hp. 120 lb. Leonard 1912; pumps, 1-120,000 gal. hor. simple d. act. Worth. 1912; 2-70,000 gal. ea. vert. triplex Goulds 1903 belted to gasoline engines, two 10-hp. ea. International 1903; pumping to reservoir, 500,000 gal.

Pipe, 0.5 mi. 8-in. c. i.; hyd. 45, hose con. 2½-in.; valves, 63 r. h. opening; av. daily cons. 140,000 gal.; serv. con. 360; ord. pres. 80 lb.

Rates; flat, $4.50 6 mo.; meter, 15c. 1000 gal.

WOODSTOCK, 3,856.
MUNICIPAL.
Supt., A. G. Fields.....Woodstock
River, near center business section; pumps driven by elec. motor, 50 to 100-hp.; pumping to standpipe, 287,000 gal.

Pipe, 6 mi. 4 to 10-in c. i.; hyd. 80; av. daily cons. 320,000 gal.; serv. con. 800; ord. pres. 60 lb. fire pres. 85 lb.

Rates; flat $6 year, bath & closet $6.50; meters, 25c. 1000 gal.

NOVA SCOTIA

AMHERST, *10,320.
MUNICIPAL.
Engr., Chas. Campbell.....Amherst
Nappan River; 3 mi. from center business section; pumps, steam; pumping direct & to reservoir, 82,000,000 gal.
Pipe, 11 mi. c. i.; hyd. 143; av. daily cons. 1,500,000 gal.; serv. con. 1471; ord. pres. 67 lb.
Rates; flat, $5 year, bath & closet $4; meter, 8c. 1000 gal.

ANNAPOLIS ROYAL, *1,000.
MUNICIPAL.
Supt., Samuel Rippey....Annapolis Royal
First Pond Lake; 4 mi. from center distribution; gravity distribution.
Pipe, 3 mi. 2½ to 6-in. c. i.; hyd. 26; serv. con. 105; ord. pres. 100 lb.
Rates; flat, $6 year, bath & closet $5.

ANTIGONISH, *2,000.
MUNICIPAL.
Supt., S. A. Hulbert.....Antigonish
Brook; gravity distribution from reservoirs, 2-4,500,000 gal.
Pipe, 7 mi. 4 to 8-in. c. i.; hyd. 26; serv. con. 300; ord. pres. 70 lb., fire pres. 140 lb.
Rates; flat, $11 year including bath and closet.

BRIDGETOWN, *1,000.
MUNICIPAL.
Supt., James Goldsmith.....Bridgetown
Springs & Crosskill Lake; 2.5 mi. from center distribution; gravity distribution from reservoirs, 2-23,500,000 gal.
Pipe, 10 mi. 4 to 8-in. c.i.; hyd. 31; av. daily cons. 90,000 gal.; serv. con. 315; ord. pres. 100 lb.
Rates; flat, $5 year; meter, 50c. 1000 gal. max., 5c. min.

CANNING, *600.
MUNICIPAL.
Supt., W. D. F. Smith.....Canning
Springs & brooks; 2 mi. from center distribution; gravity distribution from reservoir, 2,000,000 gal.
Pipe, 4 mi. 4 to 8-in. c. i.; hyd. 29; ord. pres. 50 to 75 lb.
Rates; flat, $5 year, bath & closet $5.

DARTMOUTH, 5,058.
MUNICIPAL.
Supt. & Engr. W. L. Bishop....Dartmouth
Lamont & Topsail Lakes; 2.5 mi. from center business section; gravity distribution.
Pipe, 15 mi. 4 to 20-in. c. i.; hyd. 100; serv. con. 925; ord. pres. 25 to 95 lb.
Rates; flat, $4 year; meter, 15c. 1000 gal. max., 8c. min.

DIGBY, *1,500.
MUNICIPAL.
Supt., Geo. A. Vye.....Digby
Springs & Lily Lake; 3 mi. from center business section; gravity distribution from reservoirs, 2-14,500,000 gal.
Pipe, 9 mi. 4 to 10-in. c. i.; hyd. 21; serv. con. 285; ord. pres. 80 lb., fire pres. 125 lb.

GLACE BAY, 16,561.
MUNICIPAL.
Supt., J. H. Morris.....Glace Bay
Engr. P'g. Sta., P. W. Prizzell... " "
Sand Lake; 6 mi. from center business section; no purification.
Boilers, 2 return tubular 100-hp. McCulloch; hand stoking; pumps, 1-2,000,000 gal. Allis C, 1-500,000 gal. comp. Worth., 1-500,000 gal. duplex Worth.; pumping direct.
Pipe, 20 mi. c. i.; hyd. 90, hose con. 2½-in. McAvity, Kennedy & Canada; valves, r. h. thd.; av. daily cons. 1,750,000 gal.; ord. pres. 10 to 75 lb., fire pres. same.
Rates; flat, $6, bath $3, closet $2; meter, 10c. 1000 gal.

HALIFAX, 46,619.
MUNICIPAL.
Supt., F. W. W. Doane.....Halifax
Asst. Supt., H. W. Johnston..... "
High serv. sta. on Spruce Hill Lake, 700,000,000 gal., low serv. sta. on Long Lake; 2½ & 7 mi. from center business section; no purification.
Gravity distribution from reservoir, 3,175,000 gal.; pipe, 78 mi. 3 to 27-in. c. i.; hyd. 475, hose con. 2½ & 4-in. Halifax; valves, 1015 l. h. opening Kennedy; meters, 4800 Siemens, Neptune & Thomson; av. daily cons. 10,000,000 gal.; serv. con. 8100; ord. pres. 15 to 70 lb.
Rates; flat, $10 year, bath $4, closet $2; meter, $4 year, 15c. 1000 gal. max., 7c. min.

HANTSPORT, 700.
MUNICIPAL.
Town Clerk, Geo. F. Ferguson . . Hantsport
Davison Lake 7 mi. distant; gravity distribution from reservoir, 500,000 gal.
Pipe, 11 mi. 4 to 6-in. c. i.; hyd. 28; serv. con. 146; ord. pres. 110 lb.
Rates; flat, $6 year, bath & closet $5.

INVERNESS, 2,719.
MUNICIPAL.
Supt., Calvin McDougall.....Inverness
Impounding reservoir, 700,000 gal.; 4.5 mi. from center business section; settling basins, 3-1,000,000 gal.
Gravity distribution from reservoir, 700,000 gal.; pipe, 4.5 mi. 4 to 10-in. c. i.; hyd. 17, hose con. 2½-in. Brown & McAvity; valves, 17 r. h. opening Brown; serv. con. 400; ord. pres. 40 to 130 lb., fire pres. 80 to 130 lb.
Rates; flat, $6 year; meter, 5c. 1000 gal. max., 3½c. min.

KENTVILLE, 2,304.
MUNICIPAL.
Supt., J. R. Neville.....Kentville
Cons. Engr., F. W. Doane.....Halifax
Impounding reservoirs, 2-6,000,000 gal. on Mill Brook; 4 mi. from center business section; no purification.
Gravity distribution from reservoir, 1,000,000 gal.; pipe, 14.5 mi. 4 to 8-in. c. i. & steel; hyd. 67, hose con. 2½-in. Chapman; valves, 68 r. h. opening McAvity; meters, 3; av. daily cons. 400,000 gal.; serv. con. 450; ord. pres. 85 to 115 lb., fire pres. same.
Rates; flat, $5 year, bath $3.50, closet $2; meter, 50c. 1000 gal. max., 7c. min.

LAWRENCETOWN, 600.
MUNICIPAL. Board of Water Commissioners.
Chmn. Comrs.,
Homer Daniels.....Lawrencetown
Comr., Dr. L. R. Morse..... "
" H. H. Whitman..... "
" W. C. Parker..... "
Supt., L. H. Stoddard..... "
Impounding reservoir, 500,000 gal. & well; one mi. from center business section.
Gravity distribution from reservoir; valves, 2 r. h. opening.
Rates; flat, $3 year, bath $3.

LIVERPOOL, 2,109.
MUNICIPAL.
Supt., A. H. Drew.....Liverpool
Town Lake; 1.5 mi. from center business section; gravity distribution.
Pipe, 5 mi. 6 tg 10-in. c. i.; hyd. 30; serv. con. 260; ord. pres. 75 to 85 lb.

LOUISBURG, 1,006.
LOUISBURG ELECTRIC, WATER & POWER CO., LTD.
Pres., L. Lean.....Glace Bay
V. Pres., W. W. Lewis.....Louisburg
Sec., Treas. & Gen. Mgr.,
Freeman O'Neil..... "
Cons. Engr., L. A. Jennings.....Sydney
Stewarts Lake; 1.5 mi. from center business section; no purification; gravity distribution from reservoir.
Pipe, 6 & 8-in. c. i.; serv. con. 60; ord. pres. 60 lb. max.
Rates; flat, $15 year including bath & closet.

LUNENBURG, *3,000.
MUNICIPAL.
Supt., R. A. Conrad.....Lunenburg
Cantilope Lake; 3 mi. from center business section; pumps driven by water turbines; pumping to reservoir, 1,250,000 gal.
Pipe, 9 mi. 4 to 10-in. c. i.; hyd. 54; serv. con. 450; ord. pres. 45 to 95 lb.
Rates; flat, $8 year, bath & closet $5.

MIDDLETON, *900.
MUNICIPAL.
Town Clerk, Jas. A Gates.....Middleton
Lakes & springs; 3 mi. from center business section; gravity distribution from reservoir, 3,600,000 gal.
Pipe, 7 mi. 4 & 6-in. c. i.; hyd. 24; serv. con. 200; ord. pres. 90 to 120 lb.

NEW GLASGOW, 6,383.
MUNICIPAL.
Supt., Arthur Garrett.....New Glasgow
Forbes Lake; 6 mi. from center business section; gravity distribution from reservoir, 200,000 gal.
Hyd. 100, hose con. 2½-in.; valves, r. & l. h. opening; meters 60; av. daily cons. 1,500,000 gal.; serv. con. 1637; ord. pres. 95 lb.
Rates; flat, $2.50 6 mo., bath $2.50, closet $2.50; meter, 30c. 1000 gal. max., 3c. min.

NORTH SYDNEY.
Supplied by Sydney Mines.

OXFORD, 1,392.
OXFORD WATER & POWER SUPPLY CO., LTD. (Privately owned).
Pres., Mrs. Mary E. Johnson.....Oxford
Sec., Treas., & Gen. Mgr.,
T. M. Johnson..... "
Impounding reservoirs, 2-450,000 gal.; 1⅛ mi. from center business section; no purification.
Gravity distribution; pipe, 3 mi. 4 to 8-in. c. i.; hyd. 13, hose con. 3-in. various; valves, 16 l. h. opening Canada; av. daily cons. 75,000 gal.; serv. con. 220; ord. pres. 37½ lb., fire pres. 30 to 37½ lb.
Rates; flat, $6 year, bath $2, closet $4.

PARRSBORO, *2,500.
MUNICIPAL.
Supt., Thos. Gallagher.....Parrsboro
Springs & brooks; 3 mi. from center business section; gravity distribution from reservoirs, 2-3,000,000 gal.
Pipe, 4 mi. 4 to 10-in. c. i.; hyd. 52; av. daily cons. 225,000 gal.; ord. pres. 70 lb.
Rates; flat, $5 year, bath & closet $4.

PICTOU, *3,200.
MUNICIPAL.
Supt., John R. Adams.....Pictou
Artesian wells; ½ mi. from center distribution; pumps, steam 30 to 45-hp.; pumping to standpipe.
Pipe, 9 mi. 6 to 12-in. c. i.; hyd. 65; av. daily cons. 190,000 gal.; serv. con. 620; ord. pres. 110 lb.
Rates; flat, $6 year, bath & closet $6.

SPRINGHILL, *5,700.
MUNICIPAL.
Supt., G. R. Oulton.....Springhill
Springs; 6.5 mi. from center business section; gravity distribution from reservoirs, 2-1,000,000 gal. & standpipe, 155,000 gal.
Pipe, 22 mi. 4 to 12-in. c. i.; hyd. 63; av. daily cons. 400,000 gal.; serv. con. 1000; ord. pres. 35 to 120 lb.
Rates; flat, $6 year.

STELLARTON, *4,000.
MUNICIPAL.
Town Engr., J. Potts.....Stellarton
East River; ½ mi. from center distribution; pumps, steam 150-hp.; gravel filters; pumping to reservoir, 1,000,000 gal.
Pipe, 8 mi. 4 to 10-in. c. i.; hyd. 60; av. daily cons. 450,000 gal.; serv. con. 610; ord. pres. 75 lb.; fire pres. 80 lb.
Rates; flat, $5 year, bath & closet $2; meter, 8c. 1000 gal. max., 6c. min.

SYDNEY, *18,000.
MUNICIPAL.
City Engr., D. M. Campbell.....Sydney
Brook; 3 mi. from center business section; gravity distribution from reservoir, 200,000 gal.
Pipe, 28 mi. 4 to 24-in. c. i.; hyd. 157; av. daily cons. 2,116,000 gal.; serv. con. 2156; ord. pres. 30 to 87 lb.
Rates; flat, $5 year, bath & closet $6.50; meter, 20c. 1000 gal. max., 8c. min.

SYDNEY MINES, *8,000.
Owned jointly by NOVA SCOTIA STEEL & COAL CO. AND SYDNEY MINES.
Town Engr.,
J. G. W. Campbell.....Sydney Mines
Pattles Lake; pumps, steam; pumping to reservoir, 1,000,000 & 2 for Company.
Pipe, 14 mi. c. i; hyd. 93; av. daily cons. 1,600,000 gal.; serv. con. 1003; ord. pres. 40 to 70 lb., fire pres. 30 to 90 lb.
Rates; flat, $11.50 including bath & closet.

TRURO, 6,107.
MUNICIPAL.
Supt., G. C. McDowell.....Truro
Engr. P'g. Sta., Chas. Irving..... "
Salmon River & impounding reservoir, 30,000,000 gal.; 1.5 mi. from center business section.
Boilers, 2 100 & 175-hp. 100 & 160 lb. Robb 1907 & 1900; pumps, 1-1,000,000 gal. comp. d. act. Gardner 1907, 1-1,000,000 gal. comp. d. act. Gardner 1906; air compressor, 90-hp. Robb 1913; elec. motor, 50 kw. 2300 v. 3 ph. 60 cys. Crocker-Wheeler 1913.
Pipe, 15 mi. c. i.; hyd. 123, hose con. 2½-in. Truro; valves, 98 r. h. opening Truro; meters, 15 Neptune; av. daily cons. 1,200,000 gal.; serv. con. 1200; ord. pres. 70 to 97 lb., fire pres. 70 to 120 lb.
Rates; flat, $3 6-mo., bath $1, closet $3; meter, $10 year, 8c. 1000 gal. max., 5c. min.

WESTVILLE, *4,400.
MUNICIPAL.
Town Engr., H. Carr.....Westville
Middle River; 1.5 mi. from business center; pumps, steam 45-hp.; gravel & sand filters; pumping to reservoir, 1,500,000 gal.
Pipe, 14 mi. 4 to 10-in. c. i.; hyd. 52; av. daily cons. 181,205 gal.; serv. con. 880; ord. pres. 75 lb., fire pres. 60 lb.
Rates; flat, $6.50 year; meter, 50c. 1000 gal. max., 16c. min.

WINDSOR, *3,000.
MUNICIPAL.
Supt., F. Mounce.....Windsor
Mill lakes; 8 miles from business center; gravity distribution from reservoirs, 2-705,000,000 gal.
Pipe, 9 mi. 4 to 10-in. c. i.; hyd. 66; av. daily cons. 350,000 gal.; serv. con. 500; ord. pres. 40 to 85 lb.
Rates; flat, $4 year, bath & closet $3.

WOLFVILLE, 1,458.
MUNICIPAL.
Supt., A. C. Johnson.....Wolfville
Duncan Brook; 3 mi. from center business section; gravity distribution from reservoir, 5,000,000 gal.
Pipe, 7 mi. 2 to 8-in. c. i.; hyd. 37; ord. pres. 80 lb.
Rates; flat, $5 year, bath & closet $8.

YARMOUTH, 6,600.
MUNICIPAL.
Supt., Geo. H. Robertson.....Yarmouth
Lake George; 9 mi. from center business section; no purification.
Boilers, 2 25-hp. Burrill Johnson; hand stoking; pumps, 2-720,000 gal. ea. Burrill Johnson; elec. energy from Street Railway Co.; elec. motors, 15 kw. 220 v. 3 ph. 60 cys. Canadian G. E.; pumping direct.
Pipe, 30 mi. c. i.; hyd. 98, hose con. 3-in. Burrill Johnson; valves, 185 r. h. thd.; av. daily cons. 850,000 gal.; serv. con. 1395; ord. pres. 50 lb., fire pres. 45 to 80 lb.

ONTARIO

ALEXANDRIA, 2,323.
MUNICIPAL.
Supt., B. J. MacDonell.....Alexandria
Delisle River; ¾ mi. from center business section; pumps, steam; pumping direct & to standpipe, 96,000 gal.
Pipe, 2.5 mi. c. i.; hyd. 31; av. daily cons. 250,000 gal.; serv. con. 200; ord. pres. 55 lb., fire pres. 110 lb.
Rates; flat, $6 year, bath & closet $3 meter, 30c. 1000 gal. max., 15c. min.

ALLISTON, 1,279.
MUNICIPAL.
Supt., J. Smalley .....Alliston
Impounding reservoir; pumps, steam; pumping to tank.
Pipe, 4 mi. 6 & 8-in. c. i.; hyd. 20; av. daily cons. 100,000 gal.; ord. pres. 60 lb., fire pres. 100 lb.
Rates; meter, 8c. 1000 gal.

ALVINSTON, 806.
MUNICIPAL. Pumping plant owned by Grand Trunk Railway.
Supt., H. R. Carruthers .....Alvinston
Sydenham River; ¼ mi. from center business section; pumps, steam, 10-hp.; pumping direct.
Pipe, 0.5 mi. 3 & 4-in. c. i.; hyd. 7; ord. pres. 40 to 120 lb.

AMHERSTBURG, 2,560.
MUNICIPAL.
Detroit River; pumps, steam 1,125,000 gal.; pumping to tank, 58,000 gal.
Pipe, 4.5 mi. 4 to 10-in.; hyd. 42; av. daily cons. 500,000 gal.; serv. con. 627; ord. pres. 30 lb., fire pres. 90 to 120 lb.

ARNPRIOR, 4,405.
MUNICIPAL.
Inspector, K. Riddell.....Arnprior
Matawaska River; ¾ mi. from center business section; pumps, 50-hp. steam; sand filters; pumping direct & to tank.
Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 64; av. daily cons. 500,000 gal.; serv. con. 800; ord. pres. 60 lb., fire pres. 120 lb.
Rates; flat, $4 year, bath & closet $5.

AURORA, 1,909.
MUNICIPAL.
City Clerk, G. A. Petch.....Aurora
Engr. P'g. Sta., A. Langman..... "
Wells, 2 artesian 8-in. 270 ft. deep; near center business section; reservoir, 70,000 gal.
Pumps, 2-676,000 gal. ea. turbine Allis-C. 1914 d. con. to elec. motors, 4 70-hp. ea. 550 v. 3 ph. 25 cys. G. E. 1914; elec. energy from Metropolitan Railway; pumping to elev. tanks, 2 (1905) 50,000 gal. ea. wood & steel, Chicago Bridge & Iron Works.
Pipe, 8 mi. 4 & 6-in. c. i.; hyd. 33, hose con. 2½-in. Canada; valves, 22 r. h. opening Canada; meters, one Buffalo; av. daily cons. 110,000 gal.; serv. con. 395; ord. pres. 35 lb., fire pres. 130 lb.
Rates; flat, bath 50c. quarter, closet 50c.; meter, 7c. 1000 gal.

AYLMER, 3,099.
MUNICIPAL.
Sec. & Mgr., D. C. Davis.....Aylmer
Wells, 2 & 4 mi. from center business section; pumps, steam 100 to 300-hp.; pumping to standpipes, 2-300,000 gal. ea.
Pipe, 4.75 mi. c. i.; hyd. 48; av. daily cons. 150,000 gal.; serv. con. 450; ord. pres. 48 lb., fire pres. 100 lb.
Rates; meter, min. charge $5, 36c. 1000 gal. max., 5c. min.

BARRIE, 6,420.
MUNICIPAL.
Supt., A. T. Brownlee.....Barrie
Artesian wells, near center business section; pumps, 40-hp. steam; reservoirs, 2-193,000 gal. & standpipe, 146,000 gal.
Pipe, 20 mi. c. i.; hyd. 105; av. daily cons. 200,000 gal.; serv. con. 1400; ord. pres. 78 lb., fire pres. 120 lb.
Rates; flat, $4 year, bath & closet $4.50; meter, 26c. 1000 gal. max., 17c. min.

BEAMSVILLE, 1,094.
MUNICIPAL.
Supt., F. Lay.....Beamsville
Springs; 1.25 mi. from center business section; gravity distribution from standpipes, 2-4,500,000 gal.
Pipe, 2 mi. 4 to 8-in. c. i.; hyd. 25; serv. con. 102.
Rates; flat, $5 year.

BEETON, 564.
MUNICIPAL.
Springs; 1.5 mi. from center business section; gravity distribution from reservoir, 95,000 gal.
Pipe, 2 mi. 4 to 12-in. c. i.; hyd. 25; serv. con. 135; ord. pres. 75 lb., fire pres. 56 lb.

BELLEVILLE, 9,876.
MUNICIPAL.
Quint Bay; 1.25 mi. from center business section; pumps driven by elec. motors & steam, 70 to 110-hp.; pumping direct & to standpipe, 365,000 gal.
Pipe, 17 mi. 4 to 16-in.; hyd. 230; av. daily cons. 1,100,000 gal.; serv. con. 2300; ord. pres. 80 lb., fire pres. 125 lb.
Rates; flat, $5 year, bath & closet $7; meter, 30c. 1000 gal. max., 10c. min.

BERLIN, 15,196.
MUNICIPAL.
Supt., A. L. Hymmen.....Berlin
Engr. P'g. Sta., Jos. H. Walker..... "
Wells & reservoir, 1,000,000 gal.; 2 mi. from center business section; mechanical filters, 400,000 gal.; chemicals, sulphate of alumina & hypochlorite of lime.
Boilers, 2 return tubular 125-hp. ea. Goldie & McCulloch; hand stoking; pumps,

2-1,000,000 gal. ea. steam Worth., 2-1,000,-000 gal. ea. Escher Weiss driven by elec. motors, 75-hp. 2200 v. 3 ph. 25 cys. Westg., 1-1,000,000 gal. Harland driven by gasoline engine, 120-hp. Harland; pumping direct & to standpipe (1888, 1914) steel & concrete.

Pipe, 32 mi. 4 to 12-in. c. i.; hyd. 264, hose con. 2½-in. Kerr; valves, 3109 Neptune; av. daily cons. 900,000 gal.; serv. con. 3532; ord. pres. 55 to 62 lb., fire pres. 100 lb.

Rates; flat, $4 year; meter, 18c. 1000 gal. max., 6c. min.

BLYTH, 704.

MUNICIPAL.

Supt., Joseph Carter.....Blyth

Blyth Creek; pumping to tank.

Pipe, 0.5 mi. 4-in. w. i.; hyd. 4; ord. pres. 110 to 140 lb.

BOTHWELL, 704.

MUNICIPAL FIRE, WATER & LIGHT COMMISSION.

Chmn., Geo. Mahler.....Bothwell
Conr., R. H. Johnston..... "
" John Millson..... "

Wells, 6 tubular 3-in. 15 ft. deep; near center business section; reservoir, 15,000 gal.; no purification.

Boiler, hor. 80-hp. 80 lb. Leonard 1907; pumps, one hor. comp. d. act. Waterous 1908; pumping to reservoir.

Pipe, one mi. 4 & 6-in. c. i.; hyd. 10; meters, none; ord. pres. 70 to 80 lb.

BRACEBRIDGE, 2,776.

MUNICIPAL.

Supt., W. C. Simmons.....Bracebridge

Artesian wells; ¾ mi. from center business section; pumps driven by water-turbines, 65 to 150-hp.; pumping direct & to reservoir, 215,000 gal.

Pipe, 4.5 mi. 4 to 8-in. c. i.; hyd. 52; av. daily cons. 64,000 gal.; serv. con. 530; ord. pres. 70 lb., fire pres. 100 to 120 lb.

Rates; flat, $6 year, bath & closet $4.

BRANDTON, 2,412.

MUNICIPAL. Board of Water Commissioners.

Chmn., J. D. Roberts.....Brandton
Mayor, Thomas Mara..... "
Comr., Thos. Thauburn..... "
" Geo. H. Young..... "
Supt., F. A. Early..... "

Wells, 6 tubular 6 to 10-in. 100 ft. deep; 3.5 mi. from center business section; no purification.

Pumps, 2-864,000 gal. vert. centrifugal Roturbo 1912 d. con. to elec. motor, 2 20-hp. ea. 220 v. 3 ph. 25 cys. Lancashire 1912; air compressors, 2-153 cu. ft. Ingersoll-Rand 1912 driven by elec. motors, two 20-hp. ea. 220 v. 3 ph. 25 cys. Westg. 1912; elec. energy from Hydroelectric Power Commission; pumping to reservoir, 1,250,000 gal.

Pipe, 17.5 mi. 4 to 12-in. c. i.; hyd. 76, hose con. 2½-in. London & Kerr; valves, 65 r. h. opening; meters, 843 Neptune & Leeds; av. daily cons. 235,000 gal.; serv. con. 931; ord. pres. 45 to 54 lb., fire pres. same.

Rates; flat, $1.67 quarter; meter, min. charge $1.67 quarter 5000 gal., 33.3c. 1000 gal. max., 6.7c. min.

BRANTFORD, 23,132.

MUNICIPAL.

Sec. & Mgr., Fred W. Frank.....Brantford
Supt., Thos. Lamb..... "
Asst. Supt., David L. Webster... "
Cons. Engr., Willus Shipman..... "

Infiltration galleries from springs & wells; 2 open 18 ft. & 30 ft. in diam. 28 ft. deep; near center business section; chemical, liquid chlorine.

Boilers, 3 hor. 150-hp. Inglis; hand stoking; pumps, 7-18,000,000 gal. Holly & De Laval; elec. motors, 275-hp. 2300 v. 25 cys. Westg.; elec. energy from Hydroelectric Electric Commission; pumping direct.

Pipe, 57 mi. 4 to 30-in. c. i.; hyd. 313, hose con. 3½-in. Kerr & Darling; valves, 416 r. h. opening Ludlow, Jenkins & Darling; meters, 1100 Neptune; av. daily cons. 5,000,000 gal.; serv. con. 6700; ord. pres. 65 to 85 lb., fire pres. 100 to 125 lb.

Rates; flat, $1.50 year; meter, 20c. 1000 gal. max., 5c. min.

BRIGHTON, 1,318.

MUNICIPAL.

Town Clerk, A. Mark.....Brighton
Supt., R. McLaren..... "

Springs & reservoirs, 2,000,000 gal.; 2 mi. from center business section; gravity distribution.

Pipe, 8 mi. 10-in. steel; hyd. 42 Ludlow; valves, 60 r. h. opening Kelpie; serv. con. 160; ord. pres. 80 to 100 lb.

Rates; flat, $5 year, bath $3, closet $2.50.

BROCKVILLE, 9,372.

MUNICIPAL.

Supt., Robert Picken.....Brockville

St. Lawrence River; pumps, steam 94-hp.; pumping direct.

Pipe, 19 mi. 4 to 24-in. c. i.; hyd. 127; av. daily cons. 2,800,000 gal.; serv. con. 2294; ord. pres. 55 lb., fire pres. 100 lb.

Rates; flat, $3.68 year, bath & closet $3.68.

BURKS FALLS, 973.

MUNICIPAL.

Reeve, A. A. Agar.....Burks Falls
Clerk, C. McArthur..... " "
Supt., Fred Johnston..... " "

Reazen Lake; 3 mi. from center business section; mech. filters, Bell Filtration Co.; pump driven by gasoline engines, 2.5-hp.; gravity distribution from elec. tank (1902) steel & wood.

Pipe, 6 mi. 8 to 10-in. iron; hyd. 24, hose con. 3-in.; meters, none; serv. con. 125; ord. pres. 80 lb.

BURLINGTON, 1,831.

MUNICIPAL.

Chmn. Comrs., M. C. Smith....Burlington

Comr., E. A. Harris.....Burlington
" Henry A. Graham..... "
Sec., Percy Pawson..... "
Cons. Engrs.,
Chipman & Power, Mail Bldg...Toronto
Engr. P'g. Sta., W. E. Dolton...Burlington

Infiltration wells, 20 & 36 ft. in diam. 20 ft. deep; one mi. from center business section; no purification.

Pumps, 2-645,000 gal. vert. triplex Mart-Turner 1909 geared to elec. motors, two 50-hp. 2200 v. 2 ph. Westg. 1909; elec. energy from Dominion Power & Transmission Co.; pumping to standpipe (1909) 125,000 gal.

Pipe, 9.14 mi. 4 to 8-in. c. i.; hyd. 86, hose con. 2½-in. London; valves, 60 l. h. opening Kerr; meters, 480 Pittsburgh; av. daily cons. 210,000 gal.; serv. con. 500; ord. pres. 24 to 40 lb., fire pres. 120 to 140 lb.

Rates; meter, 25c. 1000 gal. max., 6c. min.

CALEDONIA, 9,532.

Owned by the Grand Trunk Railway.
Supt., C. Butt.....Caledonia

Grand River; pumps, 32-hp. Deane; pumping direct & to tank, 25,000 gal.

Pipe, 0.5 mi. 4-in. c. i.; hyd. 6; serv. con. 32; ord. pres. 60 lb., fire pres. same.

CAMPBELLFORD, 3,051.

MUNICIPAL WATER & LIGHT COMMISSION
Chmn., E. Catty.....Campbellford
Comr., C. W. Smith..... "
Mayor, W. J. Armstrong..... "
Sec., A. C. Wise..... "
Supt., A. E. Paddy..... "
Engr. P'g. Sta., W. A. Plummer "

Prent River; no purification.

Pumps, 2-980,000 gal. hor. centrifugal Morris 1912 d. con. to elec. motors, 50 & 75-hp. 220 & 2200 v. 3 ph. 60 cys. Westg. 1912; pumping direct.

Pipe, 4 mi. 4 to 10-in. c. i.; hyd. 33, hose con. 2½-in. Chapman; valves, 13 r. & l. h. opening Kerr; serv. con. 218; ord. pres. 80 to 120 lb., fire pres. same.

CANTON, 1,251.

MUNICIPAL.

Deep wells; pumps driven by gas engine, 25 to 50-hp.; pumping to reservoir, 55,000 gal. & standpipe 100,000 gal.

Pipe, 6 mi. 4 to 10-in. c. i.; hyd. 66; av. daily cons. 50,000 gal.; serv. con. 325; ord. pres. 60 lb., fire pres. 120 lb.

Rates; flat, $5.50 year; meter, 24,000 gal.

CHATHAM, 10,770.

MUNICIPAL.
Supt., E. D. Jones.....Chatham

Thames River; ¾ mi. from center business section; pumps, steam 55 to 150-hp.; pumping to standpipe; settling basins, 8,500,000 gal.; mechanical filters.

Pipe, 28.4 mi. ¾ to 12-in. c. & w. i.; hyd. 199; av. daily cons. 250,000 gal.; serv. 20 to 100; ord. pres. 40 lb., fire pres. 110 lb.

Rates; meter, 20c. 1000 gal.

COBOURG, 5,073.

COBOURG UTILITIES CORPORATION, LIMITED.
Gen. Mgr., W. S. Robertson.....Cobourg
Supt., J. E. Skidmore..... "
Cons. Engr., E. C. H. Dowson.... "

Lake Ontario & artesian wells, 6 2½ to 5-in. 90 to 130 ft. deep; ¾ mi. from center section; reservoir, 1050 gal.; mechanical filters, 1,400,000 gal.; chemicals, hypochlorite of lime & sulphate of alumina.

Pumps, 4-1,080,000 gal. Allis-C. driven by elec. motor, 66-hp. 2200 v. 3 ph. 60 cys.; elec. energy from Electric Power Co., Ltd.; pumping direct.

Pipe, 8 mi. 4 to 12-in. c. i.; hyd. 92; valves, 66; meters, 105 various; av. daily cons. 1,000,000 gal.; serv. con. 1050; ord. pres. 60 to 70 lb., fire pres. 110 lb.

COLLINGWOOD, 7,909.

MUNICIPAL.
Supt., John Robe.....Collingwood

Georgian Bay; 1.5 mi. from center business section; pumps, steam; pumping direct.

Pipe, 20 mi. ¾ to 10-in. c. & w. i.; hyd. 90; av. daily cons. 600,000 gal.; serv. con. 1600; ord. pres. 45 lb., fire pres. 120 lb.

Rates; flat, $3.50 year; bath & closet $2; meter, 12c. 1000 gal.

COPPER CLIFF, 4,000.

THE CANADIAN COPPER COMPANY.
Pres., A. D. Miles.....Copper Cliff
Supt., J. L. Agnew..... " "
Des. Engr., E. G. Slaughter... " "

Lady McDonald & Clarabell Lakes; ¾ mi. from center business section; gravity distribution.

Pipe, 4 mi. 12 to 18-in.; hyd. 60, hose con. 2½-in.; ord. pres. 30 to 40 lb.

CORNWALL, 6,598.

MUNICIPAL.
Supt., Chas. Lount.....Cornwall

St. Lawrence River & well, 10 by 12 ft.; 1.3 mi. from center business distribution; no purification.

Boilers, 2 tubular 70-hp. ea. Ingles & Hunter; hand stoking; pumps, 4-3,000,000 Worth.; pumping to standpipe (1884) steel.

Pipe, 20 mi. 4 to 12-in c. i.; hyd. 105, hose con. 2½-in. Kerr; valves, 150 r. h. opening Kerr; av. daily cons. 1,700,000 gal.; serv. con. 1800; ord. pres. 70 to 72 lb., fire pres. 100 to 115 lb.

Rates; flat, $6 year, bath & closet $6.50.

CREEMORE, 643.

MUNICIPAL.
Reeve, G. Coupland.....Creemore
Village Clerk, A. H. Watson..... "

Springs; gravity distribution from reservoir, 88,000 gal.

Pipe, 2 mi. 4 to 12-in.; hyd. 17, hose con. 2½-in. Canadian; valves, 9 r. h. opening Canada; av. daily cons. 3000 gal. 25%; serv. con.; ord. pres. 90 to 110 lb., fire pres. same.

Rates; flat, $5 6-mo.; bath $1, closet $1.

DRESDEN, 1,551.
MUNICIPAL.
Town Clerk, J. T. Bridgwater .....Dresden
Sydenham River; no purification; boilers, 100 & 150-hp. 110 & 120 lb.; pumps, 2-500,-000 gal. ea. d. act.

DUNDAS, 4,297.
MUNICIPAL.
Chmn. Comrs., R. Karch.....Dundas
Mayor, W. E. Lesha..... "
Comr., W. Mounts..... "
Supt., J. Weight..... "
Wells, 4 open 4 ft. diam. 8 ft. deep; settling basins, 17,000 gal.; coagulating basins, 13,-000 gal., mechanical filters, 128,000 gal. Pittsburgh.
Gravity distribution from reservoir, 1,-000,000 gal.; pipe, 10 mi. 4 to 10-in. c. i.; hyd. 111, hose con 2½-in. Bertran; valves, 50 r. h. opening; meters, 240 Buffalo & Neptune; av. daily cons. 20,000 gal.; serv. con. 500; ord. pres. 45 to 105 lb., fire pres. same.
Rates; flat, $1.50 quarter, bath $2, closet $3; meter, min. charge 25c. quarter 5000 gal., 25c. 1000 gal. max., 10c. min.

DUNNVILLE, 2,861.
MUNICIPAL.
Supt., H. Jackson.....Dunnville
Grand River; pumps driven by gas engine; pumping to reservoir, 50,000 gal.
Pipe, 5.2 mi.; hyd. 47; serv. con. 400; ord. pres. 40 lb., fire pres. 75 lb.
Rates; flat, $6.25 year, bath & closet $3.12.

DURHAM, 1,579.
DURHAM WATER WORKS. (Privately owned.)
Owner, H. J. Snell.....Durham
Springs & artesian wells, 315 ft. deep; gravity distribution.
Pipe, 5 mi. 6-in. c. i. & wood; valves, 10 r. h. opening; serv. con. 300; ord. pres. 15 lb.

ELMIRA, 1,786.
MUNICIPAL.
Supt., P. McCullan.....Elmira
Wells; ¼ mi. from center business section; pump driven by oil engine 35-hp.; pumping to standpipe, 62,000 gal.
Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 35; av. daily cons. 25,000 gal.; serv. con. 105; ord. pres. 45 lb., fire pres. 110 to 125 lb.
Rates; flat, $5 year.

ESSEX, 3,500.
MUNICIPAL.
Engr., A. Terry.....Essex
Artesian wells; pumps driven by steam 25-hp.; pumping to tank 175,000 gal.
Pipe, 3.5 mi. 4 to 10-in. c. i.; hyd. 34; av. daily cons. 100,000 gal.; serv. con. 350; ord. pres. 25 lb., fire pres. 95 to 100 lb.
Rates; flat, $7 year.

FERGUS, 1,354.
MUNICIPAL.
Reeve, T. N. Waynsboro.....Fergus
Town Clerk, J. Beattie.....Fergus
Supt., H. Black..... "
Wells, 2 artesian 8-in. 100 & 260 ft. deep; ¼ mi. from center business section; no purification.
Pump, 1-650,000 gal. hor. duplex F. M. 1913 d. con. to oil engine, 40-hp. F. M. 1913; pumping to elev. tank (1912) 50,000 gal. steel.
Pipe, 4.5 mi. 6 & 8-in. c. i.; hyd. 35, hose con. 2½-in. Kerr; valves, 30 l. h. opening Kerr; meters, 4 Buffalo; av. daily cons. 50,-000 gal. 67%; serv. con. 160; ord. pres. 60 to 69 lb., fire pres. 65 to 120 lb.
Rates; flat, $5 year, bath $2.50; closet $2.50; meter, 30c. 1000 gal. max., 10c. min.

FORT ERIE, 1,147.
MUNICIPAL.
Niagara River; 1.5 mi. from center business section; pumps driven by gas engines, 30-hp.; pumping to standpipe, 130,000 gal.
Pipe, 8.25 mi. 4 to 10-in. c. i.; hyd. 80; av. daily cons. 30,000 gal.; serv. con. 300; ord. pres. 65 lb., fire pres. 120 lb.
Rates; flat, $7 year.

FORT FRANCES, 1,611.
MUNICIPAL.
Engr., James Wilson.....Fort Frances
Rainy River; 1.25 mi. from center business section; impounding reservoir; pumps driven by gasoline engines, 30-hp.; reservoir, 100-000 gal.
Pipe, 5.25 mi. 6 to 10-in. c. i.; hyd. 41; av. daily cons. 65,000 gal.; serv. con. 125; ord. pres. 35 to 100 lb.
Rates; flat, $20 year.

FORT WILLIAM, 16,499.
MUNICIPAL.
City Engr., Ray R. Knight...Fort William
Supt., C. Halonen..... " "
Loch Lomond; 7 mi. from center business section; no purification; gravity distribution from reservoir, 800,000 gal.
Pipe, 63 mi. 4 to 30-in. c. i.; hyd. 434; hose con. 2½-in. Kerr & Ludlow; valves, 540 l. h. opening Kerr & Ludlow; meters, 68 Pittsburgh; av. daily cons. 3,250,000 gal.; serv. con. 5597; ord. pres. 100 to 112 lb., fire pres. same.
Rates; meter, 14c. 1000 gal. max., 5c. min.

GALT, 10,299.
MUNICIPAL.
Comr., A. Oliver.....Galt
" A. Baird..... "
Sec., M. Ogg..... "
Supt., Scott Bartleman..... "
Des. Engr., Willus Chipman.....Toronto
Engrs. P'g. Sta., { W. O. Fulton.....Galt / John McPherson... "
Artesian wells; 1.5 mi. from center business section; no purification.
Boilers, two 130-hp. Goldie & McCulloch; hand stoking; pumps, 4-4,750,000 gal. Goldie & McCulloch; steam engines, two 100-hp. ea. Goldie & McCulloch; elec. motors,

335-hp. 2200 v. 3 ph. 25 cys. Sweden; elec. energy from Hydroelectric Commission of Ontario; pumping direct & to standpipe (1895) steel.

Pipe, 25.5 mi. 4 to 30-in. c. i. & steel; hyd. 230, hose con. 2½-in. Goldie & McCulloch & McDougal; valves, 400 r. h. thd. Jenkins; meters, 800 Neptune; av. daily cons. 1,000,000 gal.; serv. con. 2500; ord. pres. 80 to 120 lb., fire pres. same.

Rates; meter, 16c. 1000 gal.

GANANOQUE, 3,804.

MUNICIPAL. Waterworks Commission.
Chmn., George Toner.....Gananoque
Sec. & Treas., G. Arthur Jackson "
Comr., John Paul..... "
" William Edwards, Jr.... "
Mayor, Dr. S. J. O'Connor..... "
Supt., N. R. Gardner..... "

St. Lawrence River; 1.8 mi. from center business section.

Boilers, 2 hor. return tubular 85-hp. ea. 125 lb. 1904; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Kerr 1904, 1-1,500,000 gal. hor. comp. c. & f. wh. Inglis 1912; pumping to standpipe (1905) 160,000 gal.

Pipe, 5.8 mi. 4 to 8-in. c. i.; hyd. 70, hose con. 2½-in. Canada; valves, 52 l. h. opening Canada; meters, 540 Neptune, Pittsburgh & Buffalo; av. daily cons. 212,000 gal.; serv. con. 553; ord. pres. 40 to 70 lb., fire pres. 115 to 125 lb.

Rates; meter, min. charge $1.66 quarter cu. ft., 25c. 100 cu. ft. max., 20c .min.

GEORGETOWN, 1,583.

MUNICIPAL.
Supt., A. McDonald.....Georgetown

Springs; 3 mi. from center distribution; gravity distribution from reservoir, 400,000 gal.

Pipe, 7.25 mi. 4 to 10-in. c. i.; hyd. 40; av. daily cons. 76,000 gal.; serv. con. 275; ord. pres. 72 to 118 lb.

Rates; flat, $5 year.

GILSONBURG, 3,758.

MUNICIPAL. For fire protection.

Springs; 5 mi. from center businesss section; pumps driven by water-turbines, 75-hp.; pumping direct.

Pipe, 5 mi. 4 to 6-in. c. i.; hyd. 43; ord. pres. 110 to 150 lb.

GILSONBURG WATERWORKS COMPANY.
Supt., Geo. W. Tillson.....Gilsonburg

Springs; one mi. from center business section; reservoir, 18,000 gal.; pumps, steam & driven by water-turbines & gasoline engines, 15 to 60-hp.

Pipe, 5.5 mi. ½ to 6-in.; serv. con. 380; av. daily cons. 125,000 gal.; ord. pres. 20 lb.

Rates; flat, $6 year.

GODERICH, 4,522.

MUNICIPAL.
Supt., J. B. Kelly.....Goderich

Lake Huron; settling basin, 300 gal.; ½ mi. from center business section; pumps, steam 100 to 175-hp.; pumping direct & to standpipe, 125,000 gal.

Pipe, 11.75 mi. 2 to 10-in. c. & w. i.; hyd. 64; av. daily cons. 500,000 gal.; serv. con. 1200; ord. pres. 50 lb., fire pres. 80 to 170 lb.

Rates; flat, $5 year, bath & closet $6.

GRAVENHURST, 1,621.

MUNICIPAL.
Sec.-Treas., W. J. Stubbs.....Gravenhurst

Gull Lake; near center business section; pumps driven by elec. motors, 30 to 65-hp.; pumping direct & to standpipe.

Pipe, 3 mi. 4 to 10-in. c. i.; hyd. 38; av. daily cons. 60,000 gal.; serv. con. 175; ord. pres. 75 lb., fire pres. 140 lb.

Rates; flat, $6 year.

GRIMSBY, 1,665.

MUNICIPAL.
Supt., M. St. John.....Grimsby

Lake Ontario; ¼ mi. from center business section; pumps driven by elec. motors, 50-hp.; pumping direct & to reservoir, 175,000 gal.; settling basin.

Pipe, 25 mi. 6 to 8-in.; hyd. 40; av. daily cons. 175,000 gal.; serv. con. 1000 ;ord. pres. 140 lb., fire pres. 150 lb.

GUELPH, 15,175.

MUNICIPAL.
Chmn. Comrs., G. B. Ryan.....Guelph
Sec.-Treas., R. L. Porrant..... "
Comr., H. Mahoney..... "
Mgr., A. H. Foster..... "
Engr. P'g. Sta., R. Bysom..... "

Springs & reservoirs, 500,000 gal.; 4 mi. from center business section; no purification.

Boilers, 2 hor. tubular 150-hp. ea. 110 lb. Inglis 1908 & 1913; pumps, 1-3,000,000 gal. hor. comp. c. & f. wh. Inglis 1908, 2-1,500,000 gal. hor. simple c. & f. wh. Inglis 1878; pumping direct & to standpipe (1908) 500,000 gal.

Pipe, 29 mi. 2 to 14-in. c. & galv. i.; hyd. 180; meters, 82 Neptune & Buffalo; av. daily cons. 1,980,000 gal.; serv. con. 4001; ord. pres. 40 to 75 lb., fire pres. 75 to 120 lb.

Rates; flat, $1.74 6 mo., bath $1.05, closet $1.05; meter, min. charge $.150 quarter, 18c. 1000 gal. max., 8c. min.

HAILEYBURY, 3,874.

MUNICIPAL.
Chmn. Comrs., J. E. McCraig...Haileybury
Town Clerk, Theodore Connor.. "
Supt. & Engr. P'g. Sta.,
Thos. Lemon..... "
Chemist, Dr. G. P. Jackson .... "

Temisgaming Lake; ¼ mi. from center business section; reservoir, 215,000 gal.; mech. filters, 1,000,000 gal., filtering area 500 sq. ft. Bell Bros. of Ravenschort, England; chemical, sulphate of alumina.

Pumps, 2-1,000,000 gal. hor. centrifugal McDougall 1901 & 1912 d. con. to elec. motors, two 150-hp. 2200 v. 3 ph. 60 cys.

Allis-C. 1909 & 1912; elec. energy from Northern Ontario Power & Elec. Co.; pumping to reservoirs & elev. tank (1909) 215,000 gal. concrete.

Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 82, hose con. 2½-in. Canada; valves, 55 l. h. opening Canada; av. daily cons. 275,000 gal.; serv. con. 5600; ord. pres. 70 to 80 lb., fire pres. 60 to 100 lb.

Rates; flat, $6, bath $3.33, closet $3.33.

HAMILTON, 81,969.

MUNICIPAL.

City Engr., A. F. McCallum.....Hamilton
Supt., James Baier..... "

Lake Ontario; 4 mi. from center business section; pumps driven by elec. motors, 1250-hp. & steam, 1100-hp.; pumping direct; slow sand filters; reservoirs, 2-2,500,000 gal.

Pipe, 137.5 mi. 4 to 30-in. c. i.; hyd. 1239; av. daily cons. 10,500,000 gal.; serv. con. 18,439; ord. pres. 65 lb.

Rates; flat, $4 year, bath & closet $2; meter, 10c. 1000 gal. max., 7.5c. min.

HANOVER, 2,342.

MUNICIPAL.

Supt., William Beamish.....Hanover

Saugeen River; pumps driven by water-turbines, 31-hp.; pumping to elev. tank (1915) 100,000 gal. steel, Chicago Bridge & Iron Works.

Pipe, 6.5 mi. 4 to 16-in. c. i.; hyd. 53, hose con. 3-in.; valves, 45 r. h. opening; serv. con. 300; ord. pres. 50 lb., fire pres. 120 lb.

Rates; flat, $3 year, bath $2, closet $3.

HAWKESBURY, 4,400.

MUNICIPAL.

Mayor, L. B. Beaulne.....Hawkesbury
City Clerk, E. Paquette..... "
Supt., D. McKellar..... "
Des. Engr., Wm. Gennety..Montreal, Que.
Engr. P'g. Sta., B. Labigne.... "

Ottawa River; ¾ mi. from center business section; no purification.

Boilers, 2 return tubular 50-hp. ea. 125 lb. Inglis 1903 & 1910; hand stoking; pumps, 1-1,000,000 gal. hor. comp. c. & f. wh. Inglis 1903; steam engines, Inglis 1903; pumping to elev. tank (1904) 80,000 gal. steel, Caledonia Iron Works Co.

Pipe, 4.5 mi. 6 to 12-in. c. i.; hyd. 60; valves, r. h. opening Kerr; av. daily cons. 375,000 gal.; serv. con. 800; ord. pres. 70 to 86 lb., fire pres. 100 to 125 lb.

Rates; flat, $6 year, bath $2, closet $3.

HUMPSVILLE, 2,358.

MUNICIPAL WATERWORKS & ELECTRIC LIGHT COMMISSION.

Chmn., J. W. Abraham.....Humpsville
Comr., L. H. Ware..... "
" J. J. Baily..... "
Sec., P. M. Cullon..... "
Supt., Geo. Ralson..... "

Vernon Lake.

Boilers, return tubular 125-hp. 100 lb. Goldie & McCulloch 1901, 80-hp. marine 100 lb. Robb 1897; hand stoking; pumps, 1-700,000 gal. hor. simple d. act. Northey 1897, 1-700,000 gal. hor. centrifugal Canada 1908 belted to steam engines, 100-hp. Robb 1897 & 250-hp. Goldie & McCulloch 1901; pumping to reservoirs, 750,000 gal.

Pipe, 7 mi. 4 to 12-in. c. i.; hyd. 40; valves, 35 r. h. opening Canada; av. daily cons. 300,000 gal.; ord. pres. 70 to 105 lb., fire pres. same.

Rates; flat, $6 year, bath & closet $2.50.

INGERSOLL, 4,763.

INGERSOLL WATERWORKS COMPANY.

Supt., H. B. Robinson.....Ingersoll

Springs & infiltration wells; pumps driven by elec. motors & water-turbines; pumping direct & to standpipe, 165,000 gal.

Pipe, 15 mi. 4 to 12-in.; hyd. 72; av. daily cons. 750,000 gal.; serv. con. 1013; ord. pres. 60 lb., fire pres. 100 lb.

Rates; flat, $5 year, bath & closet $6.50; meter, 25c. 1000 gal. max., 10c. min.

IROQUOIS, 849.

MUNICIPAL.

Sec., James Flannagan.....Iroquois

St. Lawrence River; ½ mi. from center business section; pumps driven by water-turbines, 50-hp.; pumping direct; steam engine, for auxiliary use.

Pipe, 3 mi. 2 to 6-in. c. i.; hyd. 20; serv. con. 160; ord. pres. 50 lb., fire pres. 90 lb.

Rates; flat, $6 year, bath & closet $3.

KENORA, 6,159.

MUNICIPAL.

Town Clerk, J. C. Hay.....Kenora

Lake-of-the-woods; 1.5 mi. from center business section; pumps, steam & elec. motor driven, 100 to 150-hp.; pumping direct.

Pipe, 6 mi. 4 to 12-in. c. i.; hyd. 52; av. daily cons. 800,000 gal.; serv. con. 900; ord. pres. 70 lb., fire pres. 110 lb.

Rates; flat, $2.95 year, bath & closet $2.

KINCARDINE, 1,956.

MUNICIPAL.

Supt., A. H. Ingram.....Kincardine

Lake Huron; pumps, steam 40 to 60-hp.; gravel & sand filters; pumping to standpipe, 135,000 gal. & reservoirs, 2-96,000 gal.

Pipe, 3 mi. c. i.; hyd. 35; av. daily cons. 125,000 gal.; serv. con. 392; ord. pres. 50 to 80 lb., fire pres. 100 to 150 lb.

Rates; flat, $5 year, bath & closet $6.50; meter, 10c. 1000 gal.

KINGSTON, 18,874.

MUNICIPAL.

Gen. Mgr., C. P. Folger.....Kingston
Engr. P'g. Sta., John Evans..... "

Lake Ontario; chemical, hypochlorite of lime.

Boilers, 2 return tubular 100-hp. ea. Kingston; hand stoking; pumps, 1-3,000,000 gal. Kelley, 1-4,000,000 gal. Inglis; pumping to standpipe, 628,000 gal.

Pipe, 29.25 mi. 4 to 30-in. c. i.; hyd. 276, hose con. 3-in.; valves, 266 r. h. thd.; meters, 108; av. daily cons. 2,500,000 gal.; serv. con.

4300; ord. pres. 65 to 80 lb., fire pres. 80 lb.
Rates; meter, 30c. 100 cu. ft. max., 6c. min.

KINGSVILLE, 1,427.
MUNICIPAL.
City Clerk, Geo. Gearse.....Kingsville
Lake Erie; pumps, steam; one mi. from center business section; pumping to standpipe & tank, 45,000 gal.
Pipe, 3.75 mi. 1 to 8-in. c. i.; hyd. 29; serv. con. 350; ord. pres. 32 to 50 lb., fire pres. 80 lb.
Rates; flat, $5 year.

LEAMINGTON, 2,652.
MUNICIPAL.
Supt., S. McDonald .....Leamington
Artesian wells; ½ mi. from center business section; pumps, steam; 45 to 75-hp.; pumping direct.
Pipe, 6.25 mi. 2½ to 10-in. c. i. & steel hyd. 48; av. daily cons. 175,000 gal.; serv. con. 475; ord. pres. 50 lb., fire pres. 110 lb.
Rates; flat, $5 year, bath & closet $2.

LINDSAY, 6,964.
MUNICIPAL.
Sec., B. Ray.....Lindsay
Scubog River; mech. filters & ozonization chamber; pumps driven by elec. motors, 110-hp. & steam, 85-hp.; pumping direct & to standpipe, 135,000 gal.
Pipe, 11 mi. 3 to 12-in. c. i.; hyd. 92; av. daily cons. 475,000 gal.; serv. con. 950; ord. pres. 68 to 72 lb., fire pres. 95 to 120 lb.
Rates; flat, $6 year, bath & closet $6.50; meter, 40c. 1000 gal. max., 9.6c. min.

LISTOWELL, 2,289.
MUNICIPAL WATER & LIGHT COMMISSION.
Chmn., A. E. Malcolm.....Listowell
Sec., C. Gabboner..... "
Supt., R. Stafford..... "
Engr. P'g. Sta., W. Henderson.... "
Wells, 5 artesian 4 to 8-in. 350 ft. deep; reservoir, 50,000 gal.; ¼ mi. from center business section; no purification.
Boilers, return tubular 85-hp. 85 lb., Hunter 1900, return tubular 125-hp. 125 lb. Waterous 1909; hand stoking; pumps, 1-1,080,000 gal. hor. comp. d. act. Canada, 1-720,000 gal. hor. simple d. act. McDougal 1900; steam engines, 75-hp. Robb 1909; pumping to standpipe (1909) 60,000 gal.
Hyd. 41, hose con. 2½-in. Canada; valves, 25 r. & l. h. opening; meters, 35 Neptune; av. daily cons. 66,000 gal.; serv. con. 309; ord. pres. 50 to 56 lb., fire pres., 80 to 125 lb.
Rates; meter, min. charge $3.75 quarter, 30c. 1000 gal. max., 10c. min.

LONDON, 46,300.
MUNICIPAL. Public Utilities Commission.
Chmn., H. A. Stevenson.....London
Gen. Mgr., S. J. Glaubit..... "
Asst. Gen. Mgr., A. O. Hunt.....London
Engr., E. B. Buchanan..... "
Sec., O. Ellwood..... "
Engr., P'g. Sta., B. H. Colby..... "
Artesian wells, at Spring Bank & Horton; ¼ & 4 mi. from center business section.
Pumps, 1-4,000,000 gal. hor. comp. c. & f. wh. Blake-Yates 1894, 2-2,000,000 gal. ea. hor. duplex Northey 1904 & 1-1,000,000 gal. hor. duplex Northey 1904 geared to water wheels, 2 135-hp. ea. Northey, 2-3,000,000 gal. hor. centrifugal McDougall 1911, 3-1,500,000 gal. ea. hor. centrifugal Worth. 1911, 1-1,000,000 gal. hor. centrifugal McDougall 1911; all centrifugal d. con. to elec. motors, 2 250-hp. ea. 2200 v. 3 ph. 25 cys. Westg. 1911, 50-hp. 2200 v. 3 ph. 25 cys. Crocker-Wheeler 1911, 2 200-hp. ea. 550 v. 3 ph. 25 cys. Lancashire 1911, 2 100-hp. ea. 550 v. 3 ph. 25 cys. Lancashire 1911, 2 150-hp. ea. 550 v. 3 ph. 25 cys. G. E. 1911, 165-hp. 550 v. 3 ph. 25 cys. G. E. 1911; elec. energy from Electrical Department of the Public Utilities Commission; pumping to reservoirs, 2-6,000,000 gal.
Pipe, 116 mi. ½ to 20-in. c. i.; hyd. 831-hose con. 2½-in. London; meters, 2562 various; av. daily cons. 4,300,000 gal.; serv. con. 14,000; ord. pres. 70 to 100 lb., fire pres. 110 lb.
Rates; flat, $5 year, bath $4, closet $3.50; meter, min. charge $3.25 quarter 1500 cu. ft., 15c. 100 cu. ft. max., 8c. min.

ELECTRIC POWER COMPANY, LIMITED.
Office, Confederation Life Bldg., Toronto, Ont.
Pres., J. G. G. Kerry.....Toronto
V. Pres., A. B. Colville..... "
Sec., E. A. Macnutt.....Montreal, Que.
Treas., John Littlejohn..... "
Asst. Sec., S. D. Fowler..... "
Gen. Mgr., W. S. Robertson..... "
Supt., G. B. Smith.....Belleville
Controls the following: Coburg Gas, Light and Water Co., Napanee Water & Electric Light Co., Trenton Electric & Water Co.

MARKDALE, 925.
MUNICIPAL.
Comr., R. W. Ennis ..... Markdale.
Creeks & Springs; 0.67 mi. from center business section; pumps driven by water-turbines; gravel filter bed; pumping to standpipe, 67,000 gal.
Pipe, 5.3 mi. ½ to 8-in. c. i.; hyd. 23; av. daily cons. 50,000 gal.; serv. con. 114.
Rates; flat, $3 year, bath & closet $4.

MARKHAM, 909.
MUNICIPAL. For fire protection only.
Engr., W. Morrison.....Markham
Springs; near center distribution; pumps, steam; pumping direct; reservoir, 37,000 gal.

Pipe, one mi. 4 to 8-in. iron; hyd. 15; ord. pres. 115 lb.

MEAFORD, 2,811.

MUNICIPAL.

Supt., William Rose.....Meaford

Georgian Bay; 0.3 mi. from center business section; gravel filters; pumps, steam 50-hp.; pumping direct.

Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 45; av. daily cons. 200,000 gal.; serv. con. 500; ord. pres. 55 lb., fire pres. 130 lb.

MERRITTON, 1,670.

MUNICIPAL.

Chmn. Comrs., A. R. Thompson, Merritton
Comr., R. Carroll..... "
" Robert Dow..... "
" Chas. Wolocher..... "
" J. H. Hovey..... "
Supt., R. Clark..... "
Engr. P'g. Sta., S. H. Reynolds.. "

Lake Erie; 3 mi. from center business section; reservoir, 500,000 gal.; gravity distribution.

Pipe, 3.5 mi. 4 to 14-in. c. i.; hyd. 50, hose con. 2½-in.; valves, 300 l. h. thd. Eddy; meters, 15 Neptune; serv. con. 500; ord. pres. 35 to 105 lb., fire pres. same.

Rates; flat, $5 year; meter, 12c. 100 cu. ft. max., 2c. min.

MIDLAND, 4,600.

MUNICIPAL WATER & LIGHT COMMISSION.

Mayor, H. J. Craig.....Midland
Comr., W. Bell..... "
" W. D. Dudley..... "
Sec., S. J. Millikin..... "

Springs & reservoir, 1,000,000 gal.; 1.5 mi. from center business section.

Boiler, tubular 125-hp. 100 lb. Polson 1902; hand stoking; pumps, 1-864,000 gal. hor. tri. exp. d. act. Smart Ebby 1902, 1-864,000 gal. hor. centrifugal G. E.1911 d. con. to elec. motor, 85-hp. 2200 v. 3 ph. 60 cys. G. E. 1911; pumping to standpipe (1902) 300,000 gal.

Pipe, 4 to 10-in. c. i.; hyd. 91, hose con 2½-in. various; valves, l. h. opening; meters, 25 various; av. daily cons. 125,000 gal.; serv. con. 1300; ord. pres. 100 to 104 lb., fire pres. 125 lb.

Rates; flat, $3 6 mo., bath $1.50, closet $1.50; meter, min. charge $6.80 6-mo., 33c. 1000 gal. max., 8c. min.

MILDMAY, 1,000.

W. H. HOLTZMAN & Co.

Mgr., W. H. Holtzman.....Mildmay

Wells; 0.67 mi. from center business section; pumping to tank, 1800 gal.

Pipe, 1.4 mi. ¾ to 3-in. galv. l.; serv. con. 52.

Rates; flat, $5 year.

MILTON, 1,657.

MUNICIPAL.

Supt., W. A. Chapman.....Milton

Springs & reservoir, 500,000 gal.; 2 mi. from center business section; gravity distribution.

Pipe, 4 mi. 4 to 8-in.; hyd. 21; av. daily cons. 37,500 gal.; serv. con. 300; ord. pres. 85 to 92 lb., fire pres. 92 lb.

Rates; flat, $2.50 year, bath & closet $4.

MITCHELL, 1,766.

MUNICIPAL.

Supt., R. Ord.....Mitchell

Thames River; pumping direct.

Pipe, 2.25 mi. 4 to 6-in.; hyd. 16; serv. con. 60; ord. pres. 60 lb., fire pres. 135 lb.

Rates; flat, $5 year.

MORRISBURG, 1,696.

MUNICIPAL.

Supt., Chas. Casselman.....Morrisburg

St. Lawrence River; ¼ mi. from center distribution; pumps, steam & water turbine driven, 32-hp.; pumping direct.

Pipe, 5 mi. 4 to 8-in. c. i.; hyd. 31; av. daily cons. 300,000 gal.; serv. con. 350; ord. pres. 30 lb., fire pres. 95 lb.

Rates; flat, $5 year, bath & closet $5.

MT. FOREST, 1,837.

MUNICIPAL LIGHT & WATER Co.

Chmn., Dr. Jones.....Mt. Forest
Mayor, Mr. Clark..... " "
Sec., E. L. Ginst..... " "
Supt., John J. Hunt..... " "
Engr. P'g. Sta., John Hamilton. " "

Wells, 3 artesian 6-in. 250 to 500 ft. deep; ½ mi. from center business section; coagulating basins, 60,000 gal.

Boilers, return tubular 25-hp. Goldie & McCulloch 1906, return tubular 100-hp. 100 lb. Goldie & McCulloch 1900; pump, 1-864,000 gal. hor. comp. d. act. Northey 1900; air compressors, 2 Canada 1900-05; pumping to elev. tank (1900) 50,000 gal. steel.

Pipe, 5 mi. 4 to 12-in. w. i.; hyd. 30, hose con. 3-in. Kerr; valves, 32 l. h. opening Kerr; av. daily cons. 75,000 gal., serv. con 607; ord. pres. 45 to 65 lb., fire pres. 60 to 90 lb.

Rates; flat, $6 year, bath $2.50, closet $2.50.

NAPANEE, 2,907.

NAPANEE WATER WORKS Co.

Supt., J. A. Dufoe.....Napanee

Napanee River; pumps, Deane & wtr. turbine driven, 30 to 125-hp.; pumping to standpipe 125,000 gal.

Pipe, 3 mi. 2 to 10-in. c. & galv. i.; hyd. 35; av. daily cons. 300,000 gal.; serv. con. 250; ord. pres. 40 lb., fire pres. 100 lb.

Rates; flat, $5.75, bath & closet $9.20; meters, 57.5c. 1000 gal. max., 11.5c. min.

NEW MARKET, 2,996.

MUNICIPAL.

Mayor, J. Whelan.....New Market
Chmn. Comrs., Dr. Bord..... " "

Comr., D. Hunter.....New Market
Engr. P'g. Sta., John Morris.. " "

Artesian wells, 4 to 8-in. 100 to 300 ft. deep; reservoir, 175,000 gal.; pumps, steam 130-hp.; pumping direct.

Pipe, 6.5 mi. c. & galv. i.; hyd. 43; av. daily cons. 100,000 gal.; serv. con. 535; ord. pres. 45 lb., fire pres. 100 to 110 lb.

Rates; flat, $6 year; meters, 20c. 1000 gal.

NIAGARA, 1,723.

MUNICIPAL.

Supt., J. Brown.....Niagara

Niagara River; ½ mi. from center business section; pump, steam 60 to 80-hp. & driven by elec. motor; pumping to tank, 50,000 gal.

Pipe, 5.5 mi. c. & galv. i; hyd. 45; av. daily cons. 300,000 gal.; serv. con. 225; ord. pres. 40 lb., fire pres. 110 to 130 lb.

Rates; flat, $6 year, bath & closet $5.

NIAGARA FALLS, 9,245.

MUNICIPAL.

Comr., W. E. McCreadie....Niagara Falls
" R. F. Carter..... " "
Mayor, O. E. Daves..... " "

Niagara River; 1.5 mi. from center business section; no purification.

Pumps, 5-10,000,000 gal. elec. motors, 215 kw. 220 v. 3 ph. 25 cys. Westg. & G. E.; elec. energy from Ontario Power Co.; pumping direct & to reservoir 3,000,000 gal.

Pipe, 33 mi. 4 to 12-in. c. i.; hyd. 182; hose con. 2½-in. Ludlow; valves, 146 r. & l. h. th. Ludlow; meters, 31 Neptune; av. daily cons. 3,500,000 gal.; serv. con. 3600; ord. pres. 35 lb. fire pres. 80 to 165 lb.

Rates; flat, $4 year, bath $2, closet $2; meters, 12c. 1000 gal. max., 6c. min.

NORTH BAY, 7,737:

MUNICIPAL WATER & LIGHT COMMISSION.

Chmn., J. H. Marteau.....North Bay

Spot Lake; 3 mi. from center business section; pumps, steam & elec. motor driven; pumping direct & to reservoir, 1,378,000 gal.

Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 50; av. daily cons. 700,000 gal.; serv. con. 1300; ord. pres. 45 to 60 lb., fire pres. 70 to 80 lb.

Rates; flat, $7 year; meter 8c. 1000 gal. max., 6c. min.

NORWICH, 1,109.

MUNICIPAL.

Reeve, Chas. Carroll.....Norwich
Village Clerk, Wm. Fairley..... "
Supt., W. Daykin..... "
Cons. Engrs.,
Bowman & Connor.....West Toronto

Well, 8-in. 125 ft.; near center business section.

Pumps, 86,400 gal. deep well Luitweiler 1914 geared to elec. motor, 5-hp. 220 v. 3 ph. 25 cys. Crocker Wheeler 1914, 1-864,-000 gal. hor. centrifugal Allis-C. 1914 d. con. to elec. motor, 50-hp. 1450 v. 3 ph. 25 cys. G. E. 1914; elec. energy from Hydro-Electric Power Commission of Ontario; pumping to elev. tank (1914) 36,000 gal. steel, Des Moines Steel Co.

Pipe, 3.25 mi. 4 to 8-in. c. i.; hyd. 37, hose con. 2½-in. Kerr; valves, 25 l. h. opening Kerr; av. daily cons. 20,000 gal.; serv. con. 80; ord. pres. 40 to 50 lb., fire pres. 100 to 125 lb.

Rates; flat, $5 year, bath $3, closet $4; meter, 30c. 1000 gal. max., 10c. min.

OAKVILLE, 2,372.

MUNICIPAL WATER & LIGHT COMMISSION.

Supt., R. S. Wilson.....Oakville

Lake Ontario; ¾ mi. from center business section; reservoir, 3,800,000 gal.; chemical, chlorine.

Pumps, 2-1,000,000 gal. ea. centrifugal McDougall 1908 d. con. to elec. motor, 2 50-hp. ea. v. 3 ph. 60 cys. Allis-C. 1908; elec. energy from Dominion Power & Transmission Co.; pumping to standpipe (1909) 120,000 gal.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 88, hose con. 2½-in. Kerr; valves, 30 l. h. opening Kerr; serv. con. 600; ord. pres. 30 to 50 lb., fire pres. 90 to 140 lb.

Rates; flat, $3 year, bath $3, closet $4.

OWENVILLE, 3,340.

MUNICIPAL.

Supt., Chas. King.....Owenville

Spring, 1.5 mi. from center business section; reservoirs, 2-73,000 gal.; gravity distribution.

Pipe, 8.5 mi. 1½ to 10-in. c. & galv. i.; hyd. 57; serv. con. 540; ord. pres. 20 to 60 lb., fire pres. 65 to 100 lb.

Rates; flat, $5 year; bath $6.

ORILLA, 6,828.

MUNICIPAL.

Sec. & Treas., F. Gover.....Orilla
Supt. & Engr., W. K. Greenwood.... "

Impounding reservoirs, 2-218,000 gal. 7 springs ¾ mi. from center business section; settling & coagulating basins, 70,000 gal.; mechanical filters, 1,440,000 gal.; chemical, hypochlorite of lime.

Boiler, hor. return tubular 150-hp.; hand stoking; pumps, 1-1,080,000 gal. steam duplex, 1-1,080,000 gal. triplex driven by elec. motor, 75 kw. 2200 v. 2 ph. 60 cys. Westg.; elec. energy from Municipal Hydro-Electric Plant; pumping to reservoir, 123,000 gal. & standpipe, 36,000 gal. Wood.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 123, hose con. 2½-in.; valves, 225 r. & l. h. thd.; meters, one Neptune; av. daily con. 750,000 gal.; serv. con. 1403; ord. pres. 30 to 80 lb., fire pres. 30 to 110 lb.

Rates; flat, $7.50 year, bath $2, closet $2.50.

OSHAWA, 7,438.

MUNICIPAL. Board of Water Commissioners.

Sec. Treas.. Thos. Morris.....Oshawa
Supt., Frank Chappell..... "
Engr. P'g. Sta., W. H. Hews..... "

Lake Ontario; 4 mi. from center business section; no purification.

Boilers, 2 return tubular 100-hp. ea.; hand stoking; pumps, 1-1,296,000 gal. Canada, 1-1,728,000 gal. duplex, 1-1,404,000 gal. Allis-C. driven by elec. motor, 4000 v. 3 ph. 60 cys. G. E.; elec. energy from Seymour Power Co.; pumping to standpipe (1904) steel.

Pipe, 18 mi. 4 to 12-in.; hyd. 90, hose con. 2½-in. Kerr; valves, r. h. th. Kerr & Jenkins; meters, 899 various; av. daily cons. 490,000 gal.; serv. con. 1483; ord. pres. 35 to 55 lb., fire pres. 90 to 120 lb.

Rates; flat, $1.50 quarter, bath & closet $4.75; meter, 10c. 100 cu. ft. max., 7.5c. min.

OTTAWA, 73,193.

MUNICIPAL.

Engr., Mr. Haycock.....Ottawa
Supt., A. M. Beyer..... "

Ottawa River; 1.2 mi. from center business section; pump driven by wtr. turbines 1200 to 1500-hp.; pumping direct.

Pipe, 145 mi. 3 to 24-in. c. i., hyd. 1109; av. daily cons. 15,800,000 gal.; serv. con. 21,100; ord. pres. 90 to 93 lb., fire pres. 110 lb.

Rates; meter, 8c. 1000 gal. max., 6c. min.

OWEN SOUND, 12,555.

MUNICIPAL.

Supt., Chas. Thompson.....Owen Sound
Inspector, C. J. Pratt..... " "
Cons. Engr., R. McDowall.... " "

Sydenham River & Springs; 3 mi. from center business section; slow and filters, 2,000,000 gal.; chemicals none; gravity distribution from reservoirs, 2-5,500,000 gal.

Pipe, 23.7 mi. 4 to 30-in. c. i.; hyd. 160, hose con. 2½-in. Canada; valves, 300 l. h. opening Jenkins & Kerr; meters, 16 Neptune & National; av. daily cons. 800,000 gal. serv. con. 3250; ord. pres. 40 to 60 lb., fire pres. 60 to 95 lb.

Rates, flat, $3,33 year, closer $2.22, bath $1.11; meter, 13c. 1000 gal.

PALMERSTON, 1,665.

MUNICIPAL.

Supt., W. Thanten.....Palmerston

Artesian wells; pumps, steam & compressed air; pumping direct & to standpipe, 785,000 gal.; reservoir, 78,500 gal.

Pipe, 4 mi. 6 to 10-in. c. i.; hyd. 46; av. daily cons. 130,000 gal., serv. con. 205; ord. pres. 38 lb., fire pres. 100 to 125 lb.

Rates; flat, $5 year, bath & closet $5.

PARRY SOUND, 3,429.

MUNICIPAL.

Chmn. Comrs., J. Lawrence...Parry Sound
Comr., G. Moore.....Parry Sound
" James McFarlin..... " "
City Clerk, E. E. Armstrong.. " "
Supt. & Engr. P'g. Sta.,
G. Murray..... " "

Georgian Bay; ¾ mi. from center business section; no purification.

Boilers, Scotch 60-kp. 80 lb.; hand stoking; pumps, 1-800,000 gal. hor. comp. d. act. Smith, 1-500,000 gal. vert. triplex G. E. 1910 d. con. to elec. motor, 58-hp. 550 v. 3 ph. 60 cys. G. E. 1910; wtr. turbine, 2 350-hp. Allis-C.; pumping to elev. tank (1893) 25,000 gal. steel.

Pipe, 6.5 mi. 3 to 10-in. c. i.; hyd. 65, hose con. 2½-in. Canada; valves, 35 r. & l. h. opening Kerr; meter, 20 Buffalo & Pittsburgh; av. daily cons. 191,000 gal.; serv. con. 650; ord. pres. 40 to 80 lb., fire pres. 80 to 120 lb.

Rates; flat, $7 year, bath $1, closet $1; meter, 35c. 1000 gal. max., 15c. min.

PEMBROKE, 5,624.

MUNICIPAL.

Town Clerk, A. J. Fortier.....Pembroke

Ottawa River; 2.25 mi. from center business section; pumps, steam & elec. motor driven, 75 to 120-hp.; pumping direct & to standpipe, 140,000 gal.

Pipe, 10 mi.; hyd. 84; av. daily cons. 500,000 gal.; serv. con. 1000; ord. pres. 73 lb., fire pres. 125 lb.

Rates; flat, $6 year, bath & closet $6; meter, 30c. 1000 gal. max., 10c. min.

PERTH, 3,588.

CANADIAN ELECTRIC & WATER POWER CO.

Supt., R. J. Smith.....Perth

Pay River; ½ mi. from center business section; slow sand filters; pumps, stem & elec. motor driven, 50 to 200-hp.; pumping direct.

Pipe, 9 mi. 4 to 10-in. c. i.; hyd. 43; av. daily cons. 500,000 gal.; serv. con. 400; ord. pres. 50 lb., fire pres. 150 lb.

Rates; flat, $5 year; meter, 8c. 1000 gal.

PETERBORO, 18,360.

MUNICIPAL.

Chmn., T. F. Mathews..... Peterboro
Comr., W. H. Moore..... "
" R. Hicks..... "
Sec., S. R. Armstrong..... "
Supt., R. L. Dobbin..... "

Otonabee River.

Pumps, 2-2,500,000 gal. hor. triplex Hamilton 1894, 1-3,000,000 gal. hor. triplex Hamilton 1904, 1-3,000,000 gal. vert. centrifugal McDougall 1904; all geared to wtr. turbines, four 250 & 300-hp. Hamilton; pumping direct.

Pipe, 41.8 mi. 3 to 30-in. c. i.; hyd. 361, hose con. 2½-in. Hamilton; valves, 407 r. & l. h. opening Ludlow & Jenkins; meters, 56 Hersey, Neptune & National; av. daily cons. 3,927,500 gal.; serv. con. 4132; ord. pres. 90 lb., fire pres. 130 lb.

Rates; flat, $5 year, bath $3, closet $3.

PETROLIA, 8,518.
MUNICIPAL.
Engr., John Bright.....Petrolia
Lake Huron; 13 mi. from center business section; pumps, steam 60 to 100-hp.; pumping to standpipe.
Pipe, 13.5 mi. 2 to 12-in. c. i.; hyd. 100; av. daily cons. 586,500 gal.; serv. con. 1600; ord. pres. 32 lb., fire pres. 28 to 35 lb.

PICTON, 3,561.
MUNICIPAL.
Supt., S. O. Crandell.....Picton
Quint Bay; ½ mi. from center business section; pumps, steam 60-hp.; pumping to reservoir, 300,000 gal.
Pipe, 5 mi. 2 to 8-in. c. i.; hyd. 40; av. daily cons. 350,000 gal.; serv. con. 275; ord. pres. 75 lb., fire pres. 90 lb.
Rates; flat, $9 year; meter, 19.2c. 1000 gal. max., 12.8c. min.

PORT ARTHUR, 11,220.
MUNICIPAL.
Mayor, Mr. Mooney.....Port Arthur
City Engr., L. M. Jones..... " "
Engr. P'g. Sta., W. Mitchell... " "
City Clerk, S. F. Milne..... " "
Lake Superior; 4.5 mi. from center business section; chemical, liquid chlorine.
Pumps, 2-2,880,000 gal. hor. centrifugal Escher 1914 d. con. to elec. motors, three 250-hp. ea. 2200 v. 3 ph. 60 cys. Siemans 1914; elec. energy from City of Port Arthur Power Department; pumping direct & to standpipe (1904) 200,000 gal. steel.
Pipe, 51.5 mi. 4 to 24-in. c. i., wood & steel; hyd. 314 hose con. 2½-in. various; valves, l. h. opening; meters, 387 mostly Neptune; av. daily cons. 1,200,000 gal.; serv. con. 3059; ord. pres. 35 to 110 lb., fire pres. 150 lb.
Rates; flat, $9 year; meter, 10c. 100 cu. ft. max., 7c. min.

PORT COLBORNE, 1,624.
MUNICIPAL.
Reeve, P. E. Steele.....Port Colborne
Vil. Clerk & Supt., C. Alair... " "
Lake Erie; pumping to standpipe, 56,000 gal.
Pipe, 4.6 mi. 4 to 8-in. c. i. & steel; hyd. 48, hose con. 3-in.; av. daily cons. 216,000 gal.; serv. con. 500; ord. pres. 30 to 84 lb., fire pres. 69 to 98 lb.
Rates; flat, $1 quarter, bath 50c., closet 50c.

PORT HOPE, 5,098.
MUNICIPAL.
Supt., R. Gray.....Port Hope
Lake Ontario; filtering basins; pumps, steam 75 to 100-hp.; pumping to standpipe.
Pipe, 10.5 mi. 4 to 12-in. c. i.; hyd. 90; av. daily cons. 140,000 gal.; serv. con. 565; ord. pres. 110 lb., fire pres. 110 to 125 lb.
Rates; flat, $5 year; meter, 25c. 1000 gal. max., 5c. min.

PORT STANLEY, 896.
MUNICIPAL.
Supt., Walter Mitchell.....Port Stanley
Lake Erie; natural sand filters; pumps, 1-500,000 gal. hor. centrifugal Allis-C. 1913 d. con. to elec. motors, 50-hp. 2200 v. 3 ph. 25 cys. G. E. 1912, 2-50,000 gal. ea. hor. centrifugal Albany 1913 d. con. to elec. motors, 2 5-hp. 220 v. 3 ph. 25 cys. G. E. 1913; pumping to elev. tank (1912) 55,000 gal. iron, Des Moines Bridge & Iron Co.
Hyd. 22, hose con. 2½-in.; av. daily cons. 400,000 gal.; serv. con. 250; ord. pres 30 to 60 lb., fire pres. 130 lb.
Rates; flat, $9 year including bath & closet.

PRESCOTT, 2,801.
MUNICIPAL.
Supt., R. R. Bowsley.....Prescott
St. Lawrence River; near center business section; pumps, steam 60-hp.; pumping to elev. tank, 87,960 gal.
Pipe, 7.5 mi. 4 to 12-in. c. i.; hyd. 22; av. daily cons. 136,000 gal.; serv. con. 538; ord. pres. 60 to 80 lb., fire pres. 120 lb.
Rates; flat, $5.40; meter, 35.2c. 1000 gal. max., 9.6c. min.

PRESTON, 3,883.
MUNICIPAL.
Supt., P. R. Waugh.....Preston
Springs; ½ mi. from center business section; pumps, steam 35-hp.; pumping to standpipe, 127,000 gal. & reservoir, 65,000 gal.
Pipe, 4 to 12-in.; hyd. 62; av. daily cons. 150,000 gal.; serv. con. 400; ord. pres. 30 lb., fire pres. 120 lb.
Rates; flat, $6 year; meter, 30c. 1000 gal. max., 6c. min.

RENFREW, 3,846.
MUNICIPAL.
Supt., J. R. Stewart.....Renfrew
Bonnechere River; ½ mi. from center business section; mechanical filters; pumps driven by elec. motors, 50-hp. & steam; pumping to standpipe.
Pipe, 12 mi. 2 to 12-in. c. i.; hyd. 103; av. daily cons. 500,000 gal.; serv. con. 730; ord. pres. 80 lb., fire pres. 130 lb.

ROCKLAND, 3,397.
W. T. EDWARDS & CO., LTD.
Pres., W. T. Edwards.....Rockland
Gen. Mgr., N. L. Wilson..... "
Pur. Agt., J. H. Wyman..... "
Supt., J. Tweetie..... "
Ottawa River; ½ mi. from center business section; reservoirs, 3-90,000 gal.
Boilers, tubular 100-hp. 90 lb. Weir 1905, tubular 50-hp. 90 lb. Waterous 1895; hand stoking; pumps, 1-25,000 gal. hor. simple d. act. McDougall 1878, 1-25,000 gal. hor. simple d. act. Northey 1895; pumping to reservoirs, above.
Pipe, 2 mi. 6-in. c. i.; hyd. 24, hose con. 2½-in. Canadian; valves, 4 l. h. opening

McDougall; av. daily cons. 6000 gal.; serv. con. 400; ord. pres. 40 lb., fire pres. 150 lb.

ST. CATHARINES, *18,000.

Supt. & Engr., Alex. Milne .St. Catharines
Sec., H. G. Friesman..... " "
Chemist, B. G. Bigman..... " "

Lake Erie; 4 mi. from center business section; reservoir, 365,000,000 gal.; settling basin, 300,000,000 gal.; chemicals, liquid chlorine; gravity distribution from reservoirs 65,000,000 gal.

Pipe, 55.4 mi. 4 to 30-in. c. i.; hyd. 375, hose con. 2½-in.; valves, 654 l. h. thd. Eddy; meters, 1555 mostly Neptune; av. daily cons. 2,750,000 gal.; serv. con. 485; ord. pres. 75 to 115 lb., fire pres. same.

Rates; meter, 19.2c. 1000 gal. max., 4.6c. min.

ST. MARYS, 3,897.

MUNICIPAL. Board of Water, Light & Heat Commissioners.

Mayor, C. W. Coupland.....St. Marys
Chmn., C. E. Richardson..... " "
Sec., H. M. Miller..... " "
Cons. Engr., Willus Chipman.....Toronto
Engr. P'g. Sta., S. Robinson....St. Marys

Wells, 4 artesian 6-in. 216 to 649 ft. deep; ¾ mi. from center business section; no purification.

Boilers, 2 return tubular 150-hp. ea. 110 lb. Waterous 1910; hand stoking; pumps, 1-1,000,000 gal. hor. comp. d. act. Canada 1910, 1-1,000,000 gal. vert. triplex Goulds 1910 & 1911 d. con. to elec. motor, 100-hp. 2200 v. 3 ph. 25 cys. G. E. 1910 & 1911; elec. energy from Hydro-electric Power Commission of Ontario; pumping to standpipe (1900) 95,000 gal.

Pipe, 8.5 mi. 4 to 10-in. c. i.; hyd. 61, hose con. 2¼-in. Ludlow; valves, 82 l. h. thd. Canada; meters, 34 various; av. daily cons. 70,000 gal. 70% serv. con. 628; ord. pres. 32 to 65 lb., fire pres. 100 to 130 lb.

Rates; flat, $5 year, bath $4, closet $4; meter, min. charge $1 quarter; 30c. 1000 gal. max., 6c. min.

ST. THOMAS, 15,453.

MUNICIPAL. Board of Water Commissioners.

Mayor, M. B. Johnson.....St. Thomas
Chemist, G. K. Procker..... " "
Comr., G. Gettes..... " "
Sec., S. O. Perry..... " "
Supt., Thos. Allan..... " "
City Engr., M. Ferguson..... " "
Chemist, O. F. McLaughlin.... " "

Impounding reservoir on Kettle River; 25,000,000 gal. & artesian wells, 30 5-in. 150 ft. deep; 1.25 mi. from center business section; settling basin, 10,000,000 gal.; coagulating basin, 500,000 gal.; mech. filters, 2,000,000 gal. Hyatt; chemicals, sulphate of alumina & chlorine.

Boilers, 2 return tubular 125-hp. ea. 130 lb. Goldie & McCulloch 1914; hand stoking; pumps, 1-5,000,000 gal. hor. comp. c. & f. wh. Allis-C 1906, 2-4,000,000 gal. ea. hor. comp. d. act. Worth. 1890, 1-5,,000,000 gal. vert. centrifugal Alley & MacLellan 1911, 1-3,000,000 gal. hor. centrifugal Boving 1911 d. con. to elec. motor, 50-hp. 2200 v. 25 cys. Lancashire 1911; elec. energy from Ontario Hydroelectric Power Commission; pumping direct & to standpipe (1914) 500,000 gal.

Pipe, 29 mi. ¾ to 18-in. c. i. & steel; hyd. 200, hose con. 3-in.; valves, 145 r. h. opening; Ludlow; meters, 1500; av. daily cons. 2,000,000 gal.; serv. con. 4556; ord. pres. 45 lb., fire pres. 120 lb.

Rates; meter, 80c. 100 cu. ft.

SANDWICH, 2,302.

MUNICIPAL. Supplied by the city of Windsor.

SARNIA, 9,947.

MUNICIPAL FIRE & WATER COMMISSION

Chmn., Dr. Henderson.....Sarnia
Comr., Thos. Doherty..... "
" Robert Paul..... "
Engr. P'g. Sta., R. Bell..... "

St. Clair River; ½ mi. from center business section; reservoir, 9,500,000 gal.; chemical, hypochlorite of line.

Boilers, 2 return tubular 100-hp. ea. 100 lb. Stephenson 1898, 2 return tubular 125-hp. ea. 110 lb. Inglis 1909; hand stoking; pumps, 1-3,000,000 gal. hor. tri. exp. d. act. Worth 1898, 1-5,000,000 gal. hor. comp. d. act. Inglis 1905, 1-15,000,000 gal. hor. simple d. act. Mackwalker 1875; steam turbines, 2 hor. one 50-hp. ea. De Laval 1914; pumping direct.

Pipe, 40 mi. ¾ to 24-in. c. i. & steel; hyd. 196, hose con. 2½-in. R. D. W.; valves, r. h. opening Ludlow; meters, 2 Worth.; av. daily cons. 3,500,000 gal.; serv. con. 3143; ord. pres. 60 to 100 lb., fire pres. 80 to 100 lb.

Rates; flat, $5 year, bath $2, closet $2; meter, 7c. 1000 gal.

SAULT STE. MARIE, 10,986.

MUNICIPAL.

Mgr., A. E. Pickering.....Sault Ste. Marie
Supt., R. D. Beckstepp... " " "

St. Marys River; one mi. from center business section; chemical, hypochlorite of lime.

Pumps, 1-5,760,000 gal. duplex Northey, 2-2,160,000 gal. ea. Northey Underwriters, 1-1,400,000 gal. Northey Underwriters; pumping direct.

Pipe, 25.5 mi. 4 to 30-in. c. i.; hyd. 171, hose con. 2½-in. Eddy; valves. 350 r. & l. thd.; meters, 143; av. daily cons. 3,850,000 gal.; serv. con. 3804; ord. pres. 75 to 85 lb. fire pres. 100 to 115 lb.

Rates; flat, $8.50 year, bath $2, closet $2.

SIMCOE, 3,227.

MUNICIPAL.

Mayor, Geo. Williamson.....Simcoe
Comr., R. E. Dunton..... "
" Lewis, C. Gibson..... "

Sec. & Supt., W. C. McCall.....Simcoe
Cons. Engr., Guy R. Marston..... "
Engr. P'g. Sta., Nelson Watts..... "
Chemist, J. C. P. Grasett..... "

Springs & Linn River; ½ mi. from center business section; reservoirs, 3-5,000 gal.

Pumps, 4-300,000 gal. ea. vert. duplex Smart-Turner 1906 d. con. to gas engines, 50 & 80-hp. F. M. 1906; pumping direct & to standpipe (1906) 130,000 gal.

Pipe, 9 mi. 4 to 8-in. c. i.; hyd. 70, hose con. 2½-in. Kerr; valves, 12 l. h. opening Kerr; meters, 700 Neptune; av. daily cons. 200,000 gal.; serv. con. 379; ord. pres. 60 lb., fire pres. 95 to 125 lb.

Rates; flat, $6 year; meter, min. charge $6 year, 15c. 100 cu. ft. max., 7.5c. min.

SMITH FALLS, 6,370.

MUNICIPAL.

Mayor, J. J. Marsh.....Smith Falls
Chmn. Comrs.. J. H. Ross..... " "
Comr., W. H. Kerfoot..... " "
Sec., R. Craig..... " "
Supt., J. C. Hayes..... " "

Rideau River; ¼ mi. from center business section; no purification.

Boiler, tubular 100-hp. Goldie & McCulloch; hand stoking; pumps, 4-4,000,000 gal. F. M., 2 steam Northey; pumping direct & to elev. tanks, 2-80,000 gal.

Pipe, 12 mi. 4 to 12-in. c. & w. i.; hyd. 98, hose con. 2½-in.; valves, 300; meters, 5 Hersey & Pittsburgh; av. daily cons. 2,000,000 gal.; serv. con. 1200; ord. pres. 60 to 65 lb., fire pres. 85 to 100 lb.

SOUTHAMPTON, 1,681.

MUNICIPAL.

Chmn. Comrs., Thos. Bell....Southampton
Comr., W. H. Johns..... "
" Henry Grasser..... "
City Clerk, J. C. Eakford.... "
Supt., Geo. W. Martin..... "
Supt. & Engr. P'g. Sta.
Geo. W. Martin..... "

Lake Huron; near center business section; reservoirs, 3-100,000 gal.; no purification.

Boiler, tubular 75-hp. 110 lb. Goldie & McCulloch 1901; hand stoking; pumps, 1-1,000,000 gal. hor. comp. duplex d. act. Northey 1901, 1-300,000 gal. hor. centrifugal Canada 1911 d. con. to elec. motor, 20-hp. 220 v. 3 ph. 60 cys. G. E. 1911, 1-600,000 gal. hor. centrifugal Canada 1911 d. con. to elec. motor, 25-hp. 220 v. 3 ph. 60 cys. G. E. 1911; pumping to standpipe (1901) 138,000 gal. steel, Hunters Bridge & Boiler Co.

Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 33, hose con. 2½-in. R. D. W.; valves, 30 r. h. opening Canada; meters, 11 Buffalo, Pittsburgh & Neptune; av. daily cons. 250,000 gal. 75%; serv. con. 250; ord. pres. 47 to 67 lb., fire pres. 90 to 110 lb.

Rates; flat, $5 year, bath $3, closet $3; meter, 18c. 1000 gal.

STEELTON, 3,936.

MUNICIPAL.

Chmn. Comrs., J. H. Kent.....Steelton
Comr., D. Robertson.....Steelton
" T. McDougall..... "
Town Clerk, J. Robinson..... "
Supt., C. L. Delyea..... "
Engr. P'g. Sta., Chas. Lethbridge.. "

Wells, 6-in. 80 ft. deep; 1.5 mi. from center business section; reservoir, 650,000 gal.; no purification.

Pumps, 2-864,000 gal. hor. centrifugal Ill-Tripp 1914 d. con. to elec. motors, two 75-hp. ea. 2200 v. 3 ph. 60 cys. Crocker-Wheeler 1914; elec. energy from Water Power Department of Algoma Steel Co.

Pipe, 7 mi. 4 to 10-in. c. i.; hyd. 44, hose con. 2½-in. Kerr; valves, 94 l. h. opening Kerr; meters, 4 Buffalo; av. daily cons. 432,000 gal.; serv. con. 1125; ord. pres. 65 to 70 lb., fire pres. 90 to 110 lb.

Rates; flat, $8.50 year, bath $2, closet $2; meter, min. charge.

STRATFORD, 12,946.

MUNICIPAL.

Supt., C. McNad.....Stratford

Avon River & artesian wells; ½ mi. from center business section; mech. filters; pumps, steam & elec. motor driven, 22 to 70-hp.; pumping direct.

Pipe, 27.5 mi. 3 to 12-in. c. i. & w. i.; hyd. 187; av. daily cons. 1,000,000 gal.; serv. con. 1500; ord. pres. 30 lb., fire pres. 100 to 120 lb.

Rates; flat, $5 year, bath & closet $7.50; meter, 57c. 1000 gal. max., 9.6c. min.

STRATHROY, 2,821.

MUNICIPAL.

Supt., Arthur McLaghlin.....Strathroy

Sydenham River; near center business section; pumps, steam 25-hp.; pumping to standpipe, 150,000 gal.

Pipe, 6 mi. 4 to 8-in. c. i.; hyd. 40; av. daily cons. 250,000 gal.; serv. con. 170; ord. pres. 35 lb., fire pres. 100 lb.

Rates; flat, $1 year, bath & closet $6.59; meter, 5c. 1000 gal.

STURGEON FALLS, 2,199.

IMPERIAL PAPER MILLS, LTD. Owns the pumping station and distribution system is owned by municipality.

Supt., O. Forcier.....Sturgeon Falls

Sturgeon River; mech. filters; pumps driven by water-turbines; pumping direct.

Pipe, 5.25 mi. 4 to 10-in. c. & galv. i.; hyd. 47; serv. con. 485; ord. pres. 40 lb., fire pres. 100 lb.

SUDBURY, 4,150.

MUNICIPAL.

Town Clerk, W. J. Rose.....Sudbury
Supt., R. H. Martindale..... "

Lake Ramsay; one mi. from center business section; no purification.

Boilers, 2 return tubular 165-hp. ea. 125 lb. Inglis 1912; pumps, 2-1,584,000 gal. hor. comp. d. act. Inglis 1912; hand stoking; pumps, 2-1,584,000 gal. hor. comp. d. act. Inglis 1912, 2-1,440,000 gal. hor. centrifugal

G. E. 1907 d. con. to elec. motors, 2 90-hp. ea. 2200 v. 3 ph. 60 cys. G. E. 1907; elec. energy from Wahnapital Power Co. of Sudbury; pumping direct & to elev. tank (1895) 64,000 gal. steel.

Pipe, 15 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in. Ludlow, Jenkins & Kerr; valves, l. h. opening Jenkins & Kerr; meters, 15 Thomson, Neptune & Hersey; av. daily cons. 1,000,000 gal.; serv. con. 1293; ord. pres. 70 to 72 lb., fire pres. 80 to 115 lb.

Rates; flat, $1.50 quarter, bath & closet $2.50.

TEESWATER, 852.

MUNICIPAL.

Town Clerk, John Farquharson..Teeswater
Supt. & Engr. P'g. Sta.,
Walter Rose..... "

Mud River; near center business section.

Boilers, 2 tubular 150-hp. 90 lb. Goldie & McCullogh 1884 & 1905; pumps, 2-160,000 gal. ea. vert. simple d. act. Osborn & Kelly 1884; steam engines, 2 40-hp. ea. Osborn & Kelly 1884; pumping direct.

Pipe, one mi. 6-in. c. i.; hyd. 10; valves, 2 l. h. opening; ord. pres. 120 to 180 lb.

THOROLD, 2,273.

MUNICIPAL.

Chmn. Comrs., James Wilson.....Thorold
Comr., F. H. Keefer..... "
Mayor, Joseph Battle..... "
Sec., F. H. Moore..... "
Supt., L. S. E'Connore..... "
Engr. P'g. Sta., F. R. Grenville.... "

Well and Canal at foot of Lake Erie; reservoir, 10,000,000 gal.

Pumps, 1-2,000,000 gal. vert. triplex Smart Turner 1907 geared to water-turbine, 150-hp. Trump, 1-1,200,000 gal. hor. centrifugal 1910 d. con. to elec. motor, 25-hp. 220 v. 3 ph. 25 cys. G. E. 1910; elec. energy from Ontario Power Co.; pumping to standpipe (1907) 100,000 gal.

Pipe, 10 mi. 4 to 12-in. c. i.; hyd. 75, hose con. 2½-in. Canada; valves, 55 l. h. opening Canada; meters, 6 Buffalo & Hersey; av. daily cons. 300,000 gal.; serv. con. 600; ord. pres. 40 lb., fire pres. 150 lb

Rates; flat, $5 year, bath $2, closet $2; meter, 12c. 100 cu. ft. max., 5c. min.

TORONTO, 376,240.

MUNICIPAL. Department of Works.

Comr., R. T. Harris.....Toronto
Deputy City Engr., G. T. Powell... "
Chemist, C. G. Nasmith..... "

Lake Ontario; 2 mi. from center business section; slow sand filters, 40,000,000 gal.; mechanical filters, 50,000,000 gal.; chemical, hypochlorite of lime.

Boilers, 25 water-tube & return tubular 5000-hp.; hand & mechanical stokers, Jones; pumps, 2-15,000,000 gal. Ingles, 1-15,000,000 gal. De Laval steam turbine driven, 4-13,500,000 gal. ea. Boving driven by elec. motors, 1500-hp. Westg., 1-1,000,000 gal. steam, 1-1,500,000 gal. Canada driven by elec. motor, 225-hp. Westg., 1-62 000,000 gal. centrifugal Inglis steam turbine driven, 1-24,500,000 gal. Allis-C. driven by elec. motor, 100-hp. 1-18,500,000 gal. Allis-C. driven by elec. motor, 35-hp. 1-12,000,000 gal. Allis-C. driven by elec. motor, 75-hp. 2-5,000,000 gal. ea. centrifugal steam turbine driven, 2-6,000,000 gal. ea. driven by elec. motors, 1500-hp., 1-1,500,000 gal. Canada driven by elec. motor, 225-hp. Westg., 1-2,500,000 gal. comp., 2-1,250,000 gal. ea. comp. duplex, 2-1,000,000 gal. ea. driven by elec. motor, 60-hp. 2-450,000 gal. ea. Deane, 2-1,500,000 gal. ea. Canada driven by elec. motor, 225-hp. Westg., 2-3,500,000 gal. ea. cross-comp. Blake, 1-6,000,000 gal. vert. tri. exp. Inglis, 1-6,000,000 gal. vert. tri. exp. McDougal, 4-10,000,000 gal. ea. centrifugal Boving driven by elec. motors, 4 500-hp. ea,, 4-6,500,000 gal. ea. centrifugal McDougal driven by elec. motors, 4 500-hp. ea.; elec. energy from Niagara Hydroelectric System, 2200 v. 3 ph. 25 cys.; pumping direct & to reservoirs, 40,000,000 gal. & standpipe, 250,000 gal. & elev. tank, 100,000 gal. steel.

Pipe, 526 mi. 4 to over 30-in. c. i.; hyd. 6007, hose con. 2½-in. Smith; valves, 5053 r. h. thd. various; meters, 3400 mostly National; av. daily cons. 50,000,000 gal.; serv. con. 6398; ord. pres. 40 to 100 lb., fire pres. 100 to 350 lb.

TRENTON, 3,988.

TRENTON ELECTRIC & WATER CO., LTD.

Mgr., A. S. Hicks.....Trenton

Springs; ½ mi. from center business section; pumps, driven by elec. motors, 150 kw. 220 v. 3 ph. 60 cys. G. E. & Westg., pumping direct & to elec. tank, 50,000 gal.

Pipe, 8 mi. 4-in. c. & w. i.; hyd. 3; av. daily cons. 250,000 gal.; serv. con. 300; ord. pres. 55 lb.

Rates; flat, $5 year; meter, 60c. 1000 gal. max., 6.4c. min.

UXBRIDGE, 1,433.

MUNICIPAL.

Mayor, L. C. Nicholls.....Uxbridge
Chmn. Comrs., William Foster.... "
Ch. Engr., W. W. Johnson..... "

Springs; near center business section; pumps, 1-720,000 gal. hor. duplex Martin 1913 d. con. to water-turbines, 2,432,000 gal. rotary Young 1900 d. con. to water-turbines, 45 & 48-hp. Barber; pumping direct.

WALKERTON, 2,601.

MUNICIPAL.

Springs & reservoir, 300,000 gal.; one mi. from center business section; pump, steam, 6 to 50-hp.; pumping direct.

Pipe, 4 to 8-in. c. i.; hyd. 52; serv. con. 360; ord. pres. 55 lb., fire pres. 130 lb.

Rates; flat $4 year, bath & closet $5.

WALKERVILLE, 3,302.

WALKERVILLE WATER COMPANY. This system is connected with the system of Ford City, Sandwich and Windsor.

Pres., J. H. Walker.....Walkerville
V. Pres., H. H. Walker..... "
Sec., Treas. & Gen. Mgr.,
Charles B. Brown..... "
Dons. Engrs.,
Smith, Hinchman & Grylls.....Detroit
Engr. P'g. Sta., C. H. Henze...Walkerville
Chemist, N. C. Or..... "

Detroit River; chemical hypochlorite of lime.

Boilers, 14 hor. tubular 150-hp. 100 lb. 1904, 1905 & 1914; mechanical stoking; Murphy & natural gas fuel; pump, 3-3,000,000 gal. ea. hor. comp. d. act. Kerr; 3,000,000 gal. hor. comp. c. & f. wh.; pumping direct.

Pipe, 27 mi. 4 to 12-in. c. i.; hyd. 199; hose con. 2½-in. R. D. W. & Kerr; valves, 221 r. h. openings, Kerr; meters, 148 Thomson; av. daily cons. 2,500,000 gal.; serv. con. 1450; ord. pres. 65 to 70 lb. fire pres. 100 to 130 lb.

Rates; flat $4.80 year, bath 80c. closet 80c.; meters, min. charge $2 quarter 4000 cu. ft., 5c. 100 cu. ft. max., 3.8c. min.

WATERLOO, 4,360.

MUNICIPAL WATER WORKS & LIGHT COMMISSION.
Chmn., A. Bauer.....Waterloo
V. Chmn., Dr. W. L. Hilliard..... "
Supt., R. O. Dobbin..... "
Engr. P'g. Sta., M. Deane..... "

Artesian wells; near center distribution; no purification.

Boilers, 2 hor. tubular 80-hp. ea. 115 lb. Leonard 1899, water-tube 175-hp. 150 lb. B. & W. 1909; pumps, 1-1,500,000 gal. comp. duplex d. act. Northey 1899, 1-1,000,000 gal. triplex Goulds 1910 geared to elec. motor, 5-hp. 110 v. s: ph. 25 cys. Westg. 1914; steam engines, 150-hp. Greenwood & Battley 1908; pumping direct, to reservoirs, 3-400,000 gal. & standpipe (1900) 225,000 gal.

Pipe, 12 mi. 1 to 12-in. c. i.; hyd. 85, hose con. 2½-in. Ludlow; meters, 600 mostly Neptune; ord. pres. 80 lb., fire pres. 65 to 145 lb.

Rates; flat, $5 year; meter, min. charge $8 25,000 gal., 30c. 1000 gal.

WELLAND, 5,318.

MUNICIPAL.
Supt., James J. Haffey.....Welland

Welland Canal; ¼ mi. from center business section; pumps, steam & water-turbine driven, 40 to 170-hp.; pumping direct.

Pipe, 14.5 mi. ¾ to 16-in. c. & w. i.; hyd. 100; av. daily cons. 783,000 gal.; serv. con. 1270; ord. pres. 60 lb., fire pres. 110 lb.

Rates; flat, $4 year, bath & closet $3.

WESTON, 1,875.

MUNICIPAL ELECTRIC LIGHT & WATER PLANT.
Sec. & Supt., J. H. Taylor.....Weston

Humber River; one mi. from center business section; pumps driven by elec. motors; mech. filters; pumping to standpipe, 20x80 ft.

Pipe, 4 mi. c. i.; hyd. 16.

Rates; meter, 24c. 1000 gal.

WHITBY, 2,247.

MUNICIPAL WATER & LIGHT COMMISSION.
Chmn., J. McIntyre.....Whitby
Comr., A. M. Ross..... "
" A. H. Allen..... "
Mayor, J. E. Willis..... "
Supt., Geo. T. Every..... "
Engr. P'g. Sta., J. Sleightholm..... "

Lake Ontario; 2 mi. from center business section; slow sand filters, 300,000 gal.

Boilers, 3 return tubular 125-hp. ea. 110 lb. Inglis 1904; hand stoking; pumps, 1-1,425,000 gal. hor. comp. d. act. Inglis 1904, 2-720,000 gal. hor. centrifugal Canada 1912 d. con. to elec. motors, 2 75-hp. ea. 550 v. 3 ph. 60 cys. Canada 1912; elec. energy from Electrical Department; pumping to standpipe (1904) 157,000 gal.

Pipe, 8.4 mi. 4 to 15-in. c. i.; hyd. 55, hose con. 3-in. Canada; valves, 32 l. h. opening Canada; meters, 26 Buffalo, Leegs & Neptune; av. daily cons. 250,000 gal.; serv. con. 411; ord. pres. 35 to 47 lb., fire pres. 100 to 140 lb.

Rates; flat, $5 year, bath $3, closet $2; meter, min. charge $5 year, 16c. 1000 gal. max., 7c. min.

WINDSOR, 17,829.

MUNICIPAL. Supplies Sandwich.
Sec. & Treas., Wm. A. Hanrahan..Windsor
Ch. Engr., Joseph Hall..... "

Detroit River; ½ mi. from center business section; pump, steam 150-hp.; pumping direct.

Pipe, 38 mi. 4 to 16-in. c. i.; hyd. 312; av. daily cons. 5,000,000 gal.; serv. con. 3896; ord. pres. 50 lb., fire pres. 100 lb.

Rates; flat, $3.40 year; meter, 10c. 1000 gal.

WINGHAM, 3,238.

MUNICIPAL.
Supt., Geo. Allen.....Wingham

Maitland River; ½ mi. from center business section; pumps driven by water-turbines, 75 to 200-hp.; pumping direct & to standpipes, 129,000 gal.

Pipe, 3.5 mi. 2 to 10-in. c. i.; hyd. 27; av. daily cons. 60,000 gal.; serv. con. 180; ord. pres. 76 lb., fire pres. 120 lb.

WOODSTOCK, 9,321.

MUNICIPAL WATER & LIGHT SYSTEM.
Sec.-Treas., A. H. Lee.....Woodstock
Supt., J. G. Archibold..... "
Engr. P'g. Sta., A. G. Hubner... "

Springs; 4 mi. from center business section; no purification.

Boilers, 2 water-tube 440-hp. B. & W.; hand stoking; pumps, 1-3,750,000 gal.

Inglis; elec. motors, 2 175-hp. ea. 2200 v. 3 ph. 25 cys. G. E.; pumping direct & to reservoir, 1,000,000 gal.

Pipe, 28 mi. 4 to 12-in. c. i.; hyd. 172, hose con. 2½-in.; valves, r. h. thd.; meters, 100 Hersey, Pittsburgh & Buffalo; av. daily cons. 1,275,000 gal.; serv. con. 2500; ord. pres. 50 to 80 lb., fire pres. 80 to 120 lb.

Rates; flat, $3.20 year, bath $1.20, closet $1.60; meter, 10c. 100 cu. ft. max., 4c. min.

PRINCE EDWARD ISLAND

CHARLOTTETOWN, *12,500.

MUNICIPAL.

Chmn. Comrs.,
Chas. McGregor.....Charlottetown
Sec. Comrs., MacMillan.... "
Supt., Chas. Dalziel..... "
Cons. Engrs.,
R. S. Lea & W. L. Lea.... "
Engr. P'g. Sta.,
John Macdonald..... "

Wells, tubular; 2.5 mi. from center business section; no purification.

Boilers, 2 tubular 100 & 125-hp.; hand stoking; pumps, 2-2,000,000 gal. Blake; oil engine, 10-hp. F. M.; pumping to reservoir, 1,250,000 gal. concrete.

Pipe, 21 mi. 4 to 14-in. c. i.; hyd. 92, hose con. 2½-in. Galvin; valves, 240 l. h. thd. Coffin; meters, 25 Hersey & Neptune; av. daily cons. 1,000,000 gal.; serv. con. 2400; ord. pres. 50 to 60 lb., fire pres. 55 to 65 lb.

Rates; meter, 30c. 1000 gal. max., 15c. min.

SUMMERSIDE, *3,000.

MUNICIPAL.

Supt., Alf. Groom.....Summerside

Artesian wells; pumps, steam 35 to 50-hp.; pumping direct & to standpipe, 366,000 gal.

Pipe, 8.1 mi. iron; hyd. 56; av. daily cons. 60,000 gal.; serv. con. 264; ord. pres. 70 lb., fire pres. 90 lb.

Rates; flat, $6 year, bath & closet $8; meter, 30c. 1000 gal.

QUEBEC

AYLMER, 3,139.
MUNICIPAL.
Sec. & Treas., J. G. McDermott....Aylmer
Pumps, 2-1,200,000 gal. steam; pumping to reservoir, 60,000 gal.
Pipe, 5 mi. 4 to 8-in.; hyd. 33; av. daily cons. 240,000 gal.; serv. con. 500; ord. pres. 68 lb. fire pres. 130 lb.
Rates; flat, $6 year, bath & closet $6; meters, 30c. 1000 gal.

BEAUPORT, 4,595.
BEAUPORT WATER WORKS COMPANY.
Office, 2 Cook St., Quebec.
Supt., Joseph Gagnan.....Beauport
Cons. Engr., Hamel & Tessier,
51 St. Peters St., Quebec
Springs & Riviere Au Claire; 4 mi. center business section; reservoir, 500,000 gal.; no purification; gravity distribution from reservoir, 2,100,000 gal.
Pipe, 18 mi. 4 & 6-in. c. i.; av. daily cons. 40,000 gal.; serv. con. 500; ord. pres. 20 to 60 lbs.
Rates; flat, $6 year, bath $2, closet $2.

BEAUHARNOIS, 2,015.
MUNICIPAL.
Supt., U. Hebert.....Beauharnois
Lake St. Louis; near center business section; chemical, hypochlorite of lime.
Boilers, 2 hor. 80-hp. ea. 90 lb. Polson; hand stoking; pumps, 2-210,000 gal. hor. comp. Blake; pumping to standpipe (1905) 141,000 gal.
Pipe, 2.5 mi. 4 & 8-in. c. i.; hyd. 32; hose con. 2½-in. valves, 44 l. h. opening; av. daily cons. 190,000 gal. 90%; serv. con. 600; ord. pres. 43 to 57 lb., fire pres. 57 to 90 lb.

BEEBE, 1,000.
MUNICIPAL.
Mayor, H. E. Jenkins.....Beebe
Supt. & Engr., P'g. Sta.,
R. W. Brainard.....Beebe Junction
Springs & reservoirs, 2-1,350,000 gal. & Johns River; 2 mi. center business section; no purification.
Pumps, 1-180,000 gal. vert. triplex Gould 1914 belted to elec. motor, 10-hp. 550 v. 3 ph. 60 cys. G. E. 1914; elec. energy from Sherbrook Light & Power Co.; pumping direct and to reservoir, 2-1,350,000 gal.
Pipe, 2 mi. 4 & 6-in. c. i.; hyd. 30; hose con. 2½-in. Chapman; serv. con. 175; ord. pres. 42 to 44 lb. fire pres. 69 to 72 lb.
Rates; flat, $8 year, bath $2, closet $3.

BIENVILLE, 1,004.
MUNICIPAL.
Supt., A. Levesque.....Bienville
Springs & reservoirs, 3-1,008,000 gal.; near center business section; gravity distribution.
Pipe, 2 mi. 2 to 6-in. c. & w. i.; hyd. 9; serv. con. 150 ord. pres. 30 to 45 lb., fire pres. 75 lb.

BLESSISVILLE, 1,559.
MUNICIPAL.
Supt., L. Yeard Bouliotte.....Blessisville
Springs & reservoir; one-quarter mi. from center business section; pump, steam 40-hp.; pumping to reservoir.
Pipe, 3 mi. 4 to 8-in. c. i.; hyd. 36; serv. con. 325; ord. pres. 20 lb. fire pres. 200 lb.
Rates; flat, $7 year, bath & closet $3.

BUCKINGHAM, 3,854.
MUNICIPAL.
Supt., F. Fournier.....Buckingham
Lievie; near center business section; pump driven by water turban, 125-hp.; pumping direct.
Pipe, 6.5 mi., 4 to 12-in. c. i.; hyd. 75; av. daily cons. 1,000,000 gal.; serv. con. 650; ord. pres. 65 lb., fire pres. 90 lb.

CHICOUTIMI, 5,880.
Manager, L. A. Casgrain.....Chicoutimi
Chicoutimi River; 1.5 mi. from center business section; gravity distribution.
Pipe, 5 mi. 3 to 10-in. c. i.; hyd. 45; serv. con. 700; ord. pres. 50 lb.
Rates; flat $8 year.

CAPE ST. IGNACE, *4,000.
COMPAGNIE DE AQUEDUC DU CAPE ST. IGNACE.
Sec. & Treas., A. Bernier...Cape St. Ignace
Springs & reservoir, 1,500,000 gal.; 4.5 mi. center of business section; gravity distribution.
Pipe, 5.5 mi. 4 to 8-in. ;hyd. 10; serv. con. 135; ord. pres. 90 lb., fire pres. 125 to 140 lb.

COATICOOK, 3,165.
COATICOOK WATER COMPANY.
Supt., D. Moyle.....Coaticook
Springs & reservoirs, one mi. from center business section; gravity distribution.
Pipe, 3 mi. 3 to 8-in. c. & w. i.; hyd. 18; av. daily cons. 200,000 gal.; serv. con. 425; ord. pres. 80 to 100 lb.

DANVILLE, 1,331.
DANVILLE WATER, LIGHT & POWER COMPANY, LTD.
Pres., Jos., Masson.....Danville
V. Pres., J. E. Guilmette..... "
Sec. & Treas., H. Girard..... "
Gen. Mgr. & Pur. Agt., A. Chagnos. "
Clarke's Brook; one mi. from center business section; reservoir, 66,000 gal.; slow sand filters, 75,000 gal.
Pump, 1-50,000 gal. vert. triplex 1908 d. con. to water-turbine, 1-25,000 gal. vert. triplex; gasoline engine, 15-hp. International 1908; water-turbine, 15-hp.; pumping to elev. tank (1908) 66,000 gal.
Pipe, 5 mi. 4 & 6-in. c. i.; hyd. 25, hose con. 2½-in.; valves, 15 l. h. opening; meters, 30, various, av. daily cons. 50,000 gal. 50%; serv. con. 225; ord. pres. 40 to 100 lb., fire pres. 30 to 100 lb.

Rates; flat $8 quarter, bath $3, closet $4; meter, 25c. 1000 gal. max., 20c. min.

DRUMMONDVILLE, 1,735.
MUNICIPAL.
Supt., Joseph Desrosiers...Drummondville
St. Francis River; ½ mi. from center business section; pump driven by water turbine, 40 to 80-hp.; pumping direct.
Pipe, 4 mi. 4 & 6-in. c. i.; hyd. 30; serv. con. 400; ord. pres. 50 lb., fire pres. 125 lb.
Rates; flat $7.50 year.

FARNHAM, 3,560.
MUNICIPAL.
Supt., W. F. Girard.....Farnham
Yamaska River; near center business section; pumps driven by elec. motor, 30 to 100-hp.; pumping direct.
Pipe, 7 mi. 3 to 10-in. c, i.; hyd. 46; av. daily con. 800,000 gal.; serv. con. 870; ord. pres. 130 lb.
Rates; flat $6 year.

FRASERVILLE, 6,774.
MUNICIPAL.
City Engr., Georges Ouimet.....Fraserville
Lake Hickson & Green River; 8 mi. from center business section; steam, 30-hp.; reservoir, 10,000 gal.
Pipe, 23 mi. 4 to 24-in. c. i.; hyd. 117; av. daily cons. 800,000 gal.; serv. con. 1425; ord. pres. 50 to 125 lb.
Rates; flat $7 year; meters, 10c. 1000 gal. max., 7.5c. min.

GATINEAU POINT, 1,751.
MUNICIPAL.
Mayor, M. R. Lafontaine...Gatineau Point
Supt., E. Charette..... " "
Gatineau River; ¼ mile from center of business section; no purification.
Pump; hor. triplex Platt belted to elec. motor, 7.5-hp. 110 v. single ph. 60 cys. Wagner 1901; elec. energy from Ottawa Electric Co.; pumping to elev. tank, (1912) 35,000 gal. steel, International Marine Signal Co.
Pipe, 3.5 mi., 3 to 6-in. c. i.; hyd. 15, hose con. 2½-in. Dunlop; valves, 15 l. h. opening; meters, none; av. daily cons. 25,000 gal.; serv. con. 276; ord. pres. 40 to 80 lb.
Rates; flat 65c. month, bath, 10c. month, closet 10c.

GRAMBY, *4,750.
MUNICIPAL.
Pres., W. B. Bradford.....Gramby
Shefford Mountain lake; five miles from center business section; gravity distribution from reservoir, 100x100ft.
Pipe, 6 mi. 4 to 6-in. w. i.; hyd. 50; serv. con. 1500; ord. pres. 70 lb., fire pres. 70 to 100 lb.
Rates; flat $6 year; meters, 18c. 1000 gal. max. 15c. min.

GRAND MERE, 4,782.
MUNICIPAL.
Supt., Louis Fremett.....Grand Mere
Lake; 6.5 mi. from center of business section; gravity distribution from reservoir; filters charcoal.
Pipe, 7 mi. 8 to 10-in. c. i.; hyd. 32; serv. con. 600.
Rates; flat, $8 year.

HULL, 18,222.
MUNICIPAL.
City Engr., J. P. A. Laforest.....Hull
Engr. P'g. Sta., A. Berthiaume..... "
Ottawa river; one-half mi. from center business section, steam and water-turbine driven; 225-hp.; pumping direct.
Pipe, 38 to 40 mi. 6 to 20-in. c. i.; hyd. 320, hose con. 2½-in. R. D. W. & Ludlow; valves, 600, l. h. opening; Ludlow & Kelpie; meters, 12; av. daily cons. 4,500,000 gal.; serv. con. 4,500; ord. pres. 65 lb., fire pres. 90 to 100 lb.
Rates; meter, 30c. 1000 gal.

IBERVILLE, *2,200.
Mayor, P. Contant.....Iberville
Pres., R. Lasnier..... "
V. Pres., F. Daneau..... "
Sec. & Treas., J. Bourgingnow.... "
Richelieu river and Lake Champlain; reservoir 100,000 gal.; chemical, hypochlorite of lime.
Boilers, 50 & 100-hp. gasoline 75 & 110 lb. Jenks, 1909 and 1904; hand stoking; 1-250,000 gal. hor. d. act. 1881; steam engine, 50-hp. Robb 1909; pumping direct.
Pipe, 6 mi. 4 & 6-in. c. i.; hyd. 40, hose con. 2½-in. Pittsburgh; valves, 15, l. h. opening; Robertson; meter, 3 Pittsburgh; av. daily cons. 100,000 gal.; serv. con. 700; ord. pres. 80 tlo 125 lb. fire pres. 125 to 140 lbs.
Rates; meters, 12c. 1000 gal.

JOLIETTE, 6,346.
MUNICIPAL.
Supt., Pierre LaForest.....Joliette
L'Assomption river; pumps, steam and elec. motor driven 40 to 100-hp. and water-turban driven; pumping direct.
Pipe, 8 mi. 3 to 8-in. c. i.; hyd. 85; av. daily cons. 1,000,000 gal.; serv. con. 1429; ord. pres. 50 lb., fire pres. 120 lb.
Rates; flat $5 year, bath & closet $3.

LACHINE, 10,639.
MUNICIPAL.
Supt., D. Leclaire.....Lachine
Lake St. Louis; near center business section; pumps, steam & elec. motor driven, 125 to 450-hp.; pumping direct.
Pipe, 6.5 mi. 4 to 14-in. c. i.; hyd. 135; av. daily cons. 2,500,000 gal.; serv. con. 1200; ord. pres. 65 lb. fire pres. 90 lb.
Rates; meter, 15c. 1000 gal. max. 5c min.

LACHUTE, 2,407.
MUNICIPAL.
Chmn. Comr., John S. Giles.....Lachute
Comr., Wm. Boyd..... "
" F. Deslaurier..... "
Sec., John A. Rice..... "
Supt., R. McArthur.....

Sir John's Lake; 3.25 miles from center business section; gravity distribution.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 30, hose con. 2½-in. Jenkins; valves, 60 r. & l. h. opening; serv. con. 450; ord. pres. 48 lb., fire pres. same.

Rates; flat $6 year, bath $1, closet $1.50.

LAPRAIRIE, 2,398.

A. A. Demers, owner.

St. Lawrence river; one-half mi. from center business section; reservoir, 50,000 gal.

Boiler, 25-hp. 110 1905; pump, 1-360,000 gal. hor. duplex d. act. Blake 360,000 gal. hor. duplex d. act. Blake 1905, 1-130,000 gal. vert. duplex, 1906 belted to elec. motor, 5-hp. 550 v. 3 ph. 60cys. Allis-Chambers, 1-720,000 gal. hor. centrifugal Worth. 1912 d. con. to elec. motor, 40-hp. 440 v. 60 cys. Allis-Chambers 1912; pumping to reservoir above.

Pipe, 5.5 mi. 4 to 12-in. c. i.; hyd. 20, hose con. 2½-in. Garth; valves, 78 r. h. opening Garth; meters, 9 Leeds; av. daily cons. 200,000 gal.; serv. con. 525; ord. pres. 40 to 80 lb., fire pres. 125 lb.

Rates; flat, bath, $1, closet $2; meters, 30c. 1,000 gal. max. 17c. min.

LAUZON, 3,978.

Lauzon Water Works (Privately owned) Owner, Edouard Ruel.

2 mi. from center business section; reservoir, 60,000 gal.; no purification.

Boilers, hor. 75-hp. 100 lb. 1900; pump, 1-18,000 gal. hor. simple d. act. Canada 1900; pumping to reservoir, 30,000 gal.

Pipe, 4.5 mi.; hyd. 11, hose con. 3-in. Dunlop; valves, 8, r. h. opening, F. M.; av. daily cons. 25,000 gal.; serv. con. 350; ord. pres. 80 lb. fire pres. 80 to 200 lb.

Rates; flat $6 year, bath $1, closet $1.

LEVIS, 7,452.

Municipal.

Supt., F. Desrothers.....Levis

St. Lawrence river; near center business section; pumps driven by elec. motor, 150-hp.; reservoir, 100,000 gal.

Pipe, 12 mi. 4 to 12-in. c. i.; hyd. 107; av. daily cons. 700,000 gal.; serv. con. 882; ord. pres. 135 lb., fire pres. 175 lb.

LONGUEUIL, 3,972.

Municipal.

St. Lawrence river; mechanical filters, 400,000 gal. pumps, steam & elec. motor driven, 300,000 gal.; pumpking direct and to reservoir, 80,000 gal.

Pipe, 11 mi. 4 to 8-in.; hyd. 58; av. daily cons. 450,000 gal.; serv. con. 900; ord. pres. 55 lb., fire pres. 80 lb.

MAISONNEUVE, 18,684.

Supplied by the Montreal Water & Power Co.

MEGANTIC, 2,399.

Municipal.

Supt., Arthur Sheard.....Megantic

Springs & reservoirs, 2-200,000 gal.; emergency pumping; gravity distribution.

Pipes, 5 mi. 4 to 8-in. c. i.; hyd. 32; serv. con. 600; ord. pres. 85 lb.

Rates; flat $6 year, bath & closet $5.

MONTEBELLO, *1,200.

Montebello Water Works (Privately owned)

Owner & Supt., F. F. Aubry....Montebello

Owner, H. Chauvin..... "

Spring & reservoir, 35,000 gal.; three-quarters mile from center business section; no purification; gravity distribution.

Pipe, 2.5 mi.; 1¼ to 3-in. galv. i.; av. daily cons. 60,000 gal.; serv. con. 150.

Rates; flat $3.50, bath, $1.50, closet $1.50.

MONTMAGNY, 2,617.

Privately owned.

Supt., Jos. Cloutier.....Montmagny

Springs & brooks; 4.5 mi. from center business section; emergency pumping from Bras St. Nicholas river; pump, steam, 100-hp.; gravity distribution from reservoir, 37,500 gal.

Pipe, 11 mi. 2 to 8-in. c. i.; hyd. 31; av. daily cons. 100,000 gal.; serv. con. 550; ord. pres. 50 lb., fire pres. 110 lb.

MONTREAL, 450,273.

Municipal.

Ch. Engr. & Supt., T. W. Lefage, Montreal

St. Lawrence river; 6 mi. from center business section; pump, steam, hydraulic & elec. motor driven; 1900 to 4200-hp.; pumping direct and to reservoirs, 2-39,250,-000 gal.

Pipe, 300 mi. 4 to 36-in. c. i.; hyd. 2,000; av. daily cons. 42,800,000 gal.; ord. pres. 35 to 80 lb.

Rates; meters, $1.15 for 1000 cu. ft.

Montreal Water & Power Co. Supplies Maisonneuve, Outremont & Westmount.

Gen. Mgr. & Ch. Engr.,
F. H. Pitcher.....Montreal

Asst. Engr. Wm. H. Sutherland.. "

Supt., W. G. Dryden..... "

Chmn. & Sanitary Engr.,
Jas. O. Meadows..... "

Controller, A. M. Robb..... "

St. Lawrence river; 6 mi. from center business section; settling & coagulating basins, 2-550,000 gal. ea.; mechanical filters, 25,000,000 gal.; chemicals, hypochlorite of lime and sulphate of alumina.

Boilers, 3 water-tube 500-hp. ea. D. &W.; hand stoking; pumps, 16-94,000,000 gal.; elec. motor, 1550 kw. 550 v. 3 ph. 60 cys.; pumping direct to reservoir, 2-50,000,000 gal.

Pipe, 176 mi. 4 to over 30-in. c. i. & s.; hyd. 1300, hose con. 2½-in.; valves, 2108

r. h. opening Ludlow & Eddy & Smith; meters, 300 National & Neptune; av. daily cons. 28,500,000 gal.; serv. con. 52,000; ord. pres. 50 to 100 lb., fire pres. same.

Rates; meters, 20c. 1000 gal. max. 10c. min.

MONTREAL WEST, *700.

MUNICIPAL.

Town Engr., C. McClatchie, Montreal West
Secy. & Treas.,
C. I. Fraser..... " "

Purchase water from the City of Montreal.

Pipe, 7.5 mi. 4 to 8-in. ci. i; hyd. 69; Ludlow; valves, 49, r. h. opening; meters, 300 Neptune; av. daily cons. 45,000 gal. 85%; serv. con. 305; ord. pres. 60 to 70 lb. fire pres. 70 to 150 lb.

Rates; meters, min. charge $6 year 6666 cu. ft.; 9c. 100 cu. ft.

Rates; meters, min. charge $6 year 6666 cu. ft.; 9c. 100 cu. ft.

MONTMORENCY, 1,717.

MUNICIPAL.

Mayor, J. A. Lortie.....Montmorency
Supt., J. W. St. Pierre..... "

Montmorency river; one mi. from center business section; gravity distribution.

Pipe, 2 mi. 6 & 8-in. c. i.; hyd. 25, hose con. 2½-in.; valves, 21, r. h. opening Chapman, meters none, serv. con. 380; ord. pres. 110 to 125 lb. fire pres. same.

Rates; flat $5 year, bath $2, closet $2.

NICOLET, 2,593.

MUNICIPAL.

Supt., Joseph Secyr.....Nicolet

Nicolet river; center business section; pump, steam & elec. motor driven 24 to 50-hp.; pumping direct.

Pipe, 5 mi. 1 to 6-in. c. & w. i.; hyd. 26; av. daily cons. 275,000 gal.; serv. con. 313; ord. pres. 75 to 80 lb.; fire 150 to 160 lb.

OUTREMONT, *12,400.

Supplied by the MONTREAL WATER & POWER CO. See Montreal.

POINTE AU PIC, *4,000.

POINTE AU PIC WATER WORKS. Privately owned.

Pres., Edward Warren.....Pointe au Pic
V. Pres., J. L. Warren,
316 Donchester St., Montreal
Treas., Charles Warren.....Pointe au Pic
Gen. Mgr. & Pur. Agt.,
Ed. Warren..... " " "

Wells & brooks; 3 mi. from center business section; reservoirs, 4-545,000 gal.; gravity distribution from elev. tank (1896).

Pipe, 4 & 5-in. c. i.; hyd. 28, hose con. 2½-in.; valves, 40 r. h. opening; av. daily cons. 300,000 gal. 75%; serv. con. 500, ord. pres. 50 to 95 lb., fire pres. same.

Rates; flat, $10 year.

QUEBEC, 78,190.

MUNICIPAL.

Engr., T. A. Jardine-Forrester.....Quebec

Lake St. Charles & St. Charles river; 16 mi. from center business section; gravity distribution.

Pipe, 108 mi., 4 to 40-in. c. i.; hyd. 915, hose con. 2½-in.; valves, 1000 r. h. openings; meters, 25; av. daily cons. 12,000,000 gal.; serv. con. 18,000; ord. pres. 75 to 150 lb., fire pres. same.

RICHMOND, 2,175.

MUNICIPAL.

Impounding reservoir; 1.5 mi. from center business section; gravity distribution.

Pipes, 6 mi. 4 to 12-in.; hyd. 42; serv. con. 375; ord. pres. 80 lb.

RIMOUSKI, 3,097.

MUNICIPAL.

Mayor, C. Tache.....Rimouski
Supt., Michel Pineau..... "

Lake St. Ignace; 7 mi. from center of business section; gravity distribution from reservoir, 400,000 gal.

Pipe, 18 mi. 4 to 10-in. c. i.; hyd. 57, hose con. 3¼-in. Pratt & Cady; valves, 50 l. h. openings; av. daily con. 325,000 gal.; serv. con. 250; ord. pres. 40 to 90 lb., fire pres. 50 to 110 lb.

Rates; flat, $6 year, bath $2, closet $2.

STE. AGATHE des MONTS, 2,020.

Supt., J. Morni.....Ste. Agathe

Springs & lake; 2 mi. from center business section; no purification; gravity distribution.

Pipe, 9 mi. 2 to 12-in. c. i.; hyd. 23, hose con. 2½-in. valves, 47, r. & l. opening; serv. con. 487; ord. pres. 65 to 70 lb., fire pres. 45 to 60 lb.

Rates; flat $7 year, bath $1, closet $1.50.

ST. EUSTACHE, *2,500.

GENERAL UTILITY CORPORATION.

Pres. A. E. Pontbriaud.....Sorel

Springs, 6 mi. from center business section; no purification, gravity distribution from elev. tank (1914) 60,000 gal. steel.

Pipe, 9.5 mi. 4 to 8-in. c. i. & steel; hyd. 22, hose con. 2½-in. Kupperly; valves, 8 l. h. openings Kerr; Av. daily cons. 40,000 gal.; serv. con. 280; ord. pres. 45 lb. fire pres. same.

Rates; flat $5 year, bath $2, closet $2.

STE. GENEVIEVE de BATISCAN, *2,000.

LA SOCIETE D'AQUEDUC DES LAURENTIDES.

Pres., E. Nobert.....Ste. Genevieve
Gen. Mgr. & Pur. Agt.,
A. A. St. Arnaud..... " "

Springs; 5 mi. from center business section; gravity distribution from reservoir.

Pipe, 5 mi. 4 & 6-in. c. i.

ST. HILAIRE STA., *1,200.

ST. HILAIRE WATER WORKS. (Privately owned).

Owner, B. F. Campbell.....St. Hilaire Sta.

Lake Hortel; three mi. from center business section; settling basins, 20,000 gal.

gravity distribution from reservoir, 2-80,000 gal. & elev. tank (1907) 10,000 gal. wood.

Pipe, 4 mi. 3 & 4-in. c. & w. i.; valves, 4 l. h. opening; av. daily cons. 40,000 gal.; serv. con. 50; ord. pres. 35 to 45 lb. fire pres. 50 to 70 lb.

Rates; flat, $8.20, year, bath $2, closet $3.

ST. HYACINTHE, 9,797.

MUNICIPAL.

Mayor, Rene Morin.....St. Hyacinthe
Chmn. Comr., P. Messier.... " "
Sec. & Supt., A. Messier..... " "
Engr., P'g. Sta. A. Chapman. " "

Yamaska river; ½ mi. from center business section; mechanical filters; 1,000,000 gal. Jenekes & Sherbrooke.

Boilers, 3 tubular 125 lb. Bertrand 1897; pumps, 1-2,000,000 gal. hor. centrifugal McDougall 1911 belted to elec. motor, 2 100-hp. ea. 2200 v. 3 ph. 60 cys. Allis-Chambers 1911, 1-2,000,000 gal. hor. centrifugal belted to elec. motor, 150-hp. 2200 v. 3 ph. 60 cys. Allis-Chambers, 1911; gas engine, 2 160-hp. ea. Hornsby 1911; water turbine, 3 McDougall; pumping direct.

Pipe, 18 mi. 4 to 16-in. c. i.; hyd. 107, hose con. 2½-in. Canadian; valves, r. h. opening Ludlow; meters, none; av. daily cons. 1,700,000 gal.; ord. pres. 55 lb., fire pres. 125 lb.

Rates; flat $6 year, bath $1, closet $2.

ST. JEAN, *7,000.

L'AQUEDUC DE ST. JEAN.

Supt. E. Langlois..... St. Jean

Richelieu river; ¾ mi. from center of business section; chemical, hypochlorite of lime.

Boilers, 3 hor. tubular 120-hp. McDougall; hand stoking; pumps, 3-750,000 gal. Blake; pumping direct and to elev. tank, 20,000 gal.

Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 70; hose con. 2½-in.; valves, 97 l. h. openings; meters, 25 Neptune; serv. con. 1350, ord. pres. 50 lb., fire pres. 80 to 120 lb.

Rates; flat $8 year; meter, 30c. 1000 gal. max., 20c. min.

ST. JEROME, 3,473.

MUNICIPAL.

Mayor, J. A. Legault.....St. Jerome
Supt., Paul Limoges..... " "

Spring, 2 mi. from center business section; gravity distribution.

Pipe, 6 to 16-in. c. i.; hyd. 27; meters, none; serv. con. 900; ord. pres. 42 to 60 lb., fire pres. 65 to 107 lb.

Rates; flat, $8 year.

ST. JOHNS, 5,903.

ST. JOHNS WATER WORKS. (Privately owned.)

Gen. Mgr., E. Longlois.....St. Johns

Richelieu river; one-quarter mi. from center business section; chemical, hypochlorite of lime.

Richelieu river; ¾ mi. from center business section; chemical, hypochlorite of lime.

Boilers, 2 hor. tubular 120-hp. ea. 120 lb. McDougall 1905, hor. tubular 90-hp. 90 lb. 1890; hand stoking; pumps, 1-800,000 gal. hor. comp. d. act. Blake 1905; 900,000 gal. hor. simple c. & f. wh. Beauchemin 1876, 1-700,000 gal. hor. simple d. act. Beauchemin, 1880; pumping direct and to elev. tank (1880) 20,000 gal.

Pipe, 12 mi.; 4 to 10-in. c. i.; hyd. 76, hose con. 2½-in.; valves, 96 l. h. opening Ludlow & Jenkins; meters, 26 Neptune; av. daily cons. 680,000 gal. 65%; serv. con. 1300; ord. pres. 55 to 65 lb., fire pres. 100 to 135 lb.

Rates; flat $8 year, bath $1, closet $4; meters, 30c. 1000 gal. max., 20c. min.

ST. LAMBERT, 3,344.

MUNICIPAL.

Town Engr., E. Drinkwater...St. Lambert
Engr. P'g. Sta., E. LeRoyer... " "

St. Lawrence river; ¼ mi. from center business section; no purification.

Boilers, 2 tubular 70-hp. ea. Dolson; hand stoking; pump, 1-1,400,000 gal. steam Horthey, 1-500,000 gal. driven by elec. motor, 40-hp. 550 v. 3 ph. 60 cys. Bullock; pumping direct to elev. tank, 100,000 gal. steel.

Pipe, 12.2 mi. 4 to 10-in. c. i.; hyd. 135, hose con. 2½-in. Ludlow; valves, 140, Ludlow & Pratt & Caddy; meters, 6 Worth. & Neptune; av. daily cons. 300,000 gal. serv. con. 765; ord. pres. 40 to 50 lb., fire pres. 125 lb.

Rates; flat $5 year; meter 30c. 1000 gal. max., min. 15c.

ST. LAURENT, 1,860.

MUNICIPAL.

Supt., R. Le Cavalier.....St. Laurent

Ottawa river; five mi. from center business section; reservoir, 165,000 gal.; no purification.

Boilers, 2 120-hp. ea. 150 lb. Binet, 1910; pumps, 1-1,000,000 gal. vert. simple 1912, 2-500,000 gal. vert. duplex 1910 d. con. to steam turban, 150-hp. 1912; pumping to standpipe, 165,000 gal.

Pipe, 18 mi. 4 to 8-in.; hyd. 85, hose con. 2½-in.; valves, 45 l. h. opening; av. daily cons. 9,000,000 gal.; serv. con. 500; ord. pres. 50 lb., fire pres. 100 lb.

SAULT-au-RECOLLET, 1,311.

MUNICIPAL.

Mayor, F. J. Brousseau.. Sault-au-Recollet
Supt., L. Cardinal..... " " "

Ottawa river; reservoir, 255,000 gal.; slow sand filters, 1,000,000 gal.

Rates; flat $8 year, bath $1.

SHAWINIGAN FALLS, 4,265.

MUNICIPAL.

St. Maurice river; ¼ mi. from center of business section; pump driven by elec.

motor, 30 to 125-hp.; pumping direct and to reservoir, 30,000 gal.

Pipe, 4.7 mi. 4 to 12-in. c. i.; hyd. 50; av. daily cons. 750,000 gal. serv. con. 700; 700; ord. pres. 90 lb., fire pres. 170 lb.

Rates; flat $6 year; meters, 75c. 1000 gal. max., 6c. min.

SHERBROOKE, 16,405.

MUNICIPAL.

Chmn. Comr., O. C. Denault...Sherbrooke
Supt., Edw. McKeon..... "

Magog river; reservoir, 110,000 gal.; purification.

Pumps, 1-2,000,000 gal. vert. tri. exp. Gould 1888, 1-2,000,000 gal. Gould 1904, 1-2,000,000 gal. 1910; pumping to reservoir, 11,000,000 gal.

Pipe, 32 mi. 1 to 24-in. c. i.; hyd. 186, hose con. 2¼-in.; valves, 348 r. h. opening; meters, 185 National; av. daily cons. 2,500,000 gal. serv. con. 2,700; ord. pres. 40 to 135 lb., fire pres. same.

SOREL, 8,420.

MUNICIPAL.

Mayor, J. B. T. Lafreniere.....Sorel
Supt., A. Guay..... "
Engr. P'g. Sta., Edmond Moore..... "

Richelieu river; ½ mi. center business section; reservoir, 100,000 gal.

Boilers, 200-hp. Beauchemin 1910; pump, 1-660,000 gal. vert. triplex, Gould 1904, 1-hor. duplex Beauchemin 1873, 1-2,720,000 gal. hor. duplex Worth; elec. motor, 150-hp. 2200 v. 3 ph. 60 cys. elec. energy from Shawinigan Water & Power Co., pumping to elev. tank, 100,000 gal.

Pipe, 7 mi. 4 to 8-in.; hyd. 85, hose con. 2½-in. Dunlop.

THEDFORD MINES, 7,261.

MUNICIPAL.

Supt., D. Lamont.....Thedford Mines

Springs & reservoirs, 2-1,000,000 gal.; 2 mi. from center business section; gravity distribution.

Pipe, 8.5 mi. 6 to 12-in. c. i.; hyd. 98; serv. con. 1300; ord. pres. 105 lb.

Rates; flat $8 year.

THREE RIVERS, 13,691.

MUNICIPAL.

St. Maurice river; near center business section; pumps, elec. motor driven, 200 to 500-hp.; mechanical filters, pressure; pumping direct.

Pipe, 16 mi. 4 to 12-in. c. i.; hyd. 136; av. daily cons. 1,500,000 gal.; serv. con. 2500; ord. pres. 90 lb., fire pres. 135 lb.

VALLEY FIELD, 11,055.

MUNICIPAL.

Supt., D. Masse.....Valley Field

St. Lawrence river; pump driven by water turban, pumping direct.

Pipe, 11 mi. 4 to 12-in. c. i.; hyd. 131; av. daily cons. 1,200,000 gal.; hyd. 131; serv. con. 2025; ord. pres. 90 lb., fire pres. 120 to 140 lb.

Rates; flat $5 year.

VAREMES, *1,500.

GENERAL UTILITIES CORPORATION, LTD.

Office, Sorel.
Pres., A. E. Pontbriand.....Sorel

St. Lawrence river; no purification.

Pumps, 1-430,000 gal. vert. triplex Gould 1905, 2-720,000 gal. hor. centrifugal, Allis-Chambers 1914 d. con. to elec. motor, 20 & 2 30-hp. 220 v. 3 ph. 30 cys. Westinghouse, & G. E. 1909 & 1914; gas engine, 25-hp. Otto, 1909; elec. energy from the Sorel Light & Power Co., pumping to elev. tank (1908) 55,000 gal.

Pipe, 4.5 mi. 2 to 8-in. c.. i. & s.; hyd. 12, hose con. 2½-in.; valves, 10; av. daily cons. 50,000 gal. serv. con. 250; ord. pres. 40 to 430 lb., fire pres. 130 lb.

Rates; flat, $6 year, bath $2, closet $3.

WESTMOUNT, *19,000.

Supplied by the MONTREAL WATER & POWER CO. See Montreal.

WINDSOR MILLS, 2,233.

MUNICIPAL.

Springs and reservoir; ¾ mi. from center business section; mechanical filters; pumping from Waddopekah river to reservoir above.

Pipes, 3 mi. 4 to 8-in. c. i.; hyd. 27; av. daily cons. 125,000 gal.; serv. con. 400.

SASKATCHEWAN

ARCOLA, *1,200.
MUNICIPAL.
Supt., Geo. Fortuck.....Arcola
Springs; 3.5 mi. from center business section; pump driven by gasoline engine, 10-hp.; pumping to standpipe.
Pipe, 6 mi. 8 & 12-in. wood; hyd. 13; av. daily cons. 100,000 gal.; serv. con. 30; ord. pres. 50 lb.
Rates; flat, $15 year.

ESTEVAN, *2,300.
MUNICIPAL. For fire protection only.
Sec.-Treas., L. A. Duncan.....Estevan
Well; pump driven by gasoline engine, 50-hp.; pumping to standpipe, 100,000 gal.
Pipe, 2.5 mi. 6 & 8-in. c. i.; hyd. 24; ord. pres. 40 lb., fire pres. 80 to 120 lb.

HUMBOLDT, 1,550.
MUNICIPAL.
Supt., S. J. Martin.....Humboldt
City Clerk, W. H. Stiles..... "
Cons. Engrs.,
Chipman & Power.....Winnipeg, Man.
Engr. P'g. Sta., J. Gordon.....Humboldt
Stoney Lake; settling; mech. filters, 160,000 gal. Roberts.
Pumps, 2-288,000 gal. vert. simple d. act. Deane 1915 driven by gasoline engine, 50-hp. International 1915 & elec. motor, 50-hp. 220 v. 3 ph. 60 cys. Westg. 1915; elec. energy from Humboldt Elec. Lt. Plant; pumping to standpipe, (1914) 16,000 gal.
Pipe, 8 mi. 8 to 8 to 12-in.; hyd. 36, hose con. 3-in. Fairbanks; valves, 34.

INDIAN HEAD, *2,000.
MUNICIPAL.
Springs; 9 mi. from center business section; gravity distribution.
Pipe, 13 mi. 4 to 12-in. c. i.; hyd. 43; serv. con. 188; ord. pres. 90 lb., fire pres. 150 lb.

MAPLE CREEK, *2,200.
MUNICIPAL.
Mayor, W. J. Redmond.....Maple Creek
Supt., T. Paterson..... " "
Springs; 8.5 mi. from center business section; reservoirs, 3-340,000 gal.; no purification; gravity distribution from reservoirs, 2-270,000 gal.
Pipe, 12.5 mi. 6 to 12-in. wood; hyd. 30, hose con. 2½-in. Vulcan; valves, 40 r. h. opening Kerr; meters, 12 Neptune; av. daily cons. 275,000 gal. 20%; serv. con. 350; ord. pres. 60 lb., fire pres. 110 to 112 lb.
Rates; flat, $4.50 quarter, bath 50c., closet $1; meter, 30c. 1000 gal. max., 7c. min.

MOOSE JAW, 13,823.
MUNICIPAL.
City Comr., Geo. D. Matkie....Moose Jaw
Mayor, James Pascoe..... " "
Comr., W. F. Heal..... " "
Supt., Geo. Loze..... " "
Infiltration gallery; 23 mi. west of business section; impounding reservoir, 45,000,000 gal.; gravity distribution from reservoir, 2,000,000 gal. & elev. tank, 100,000 gal. steel.
Pipe, 38 mi. 4 to 12-in. c. i.; hyd. 302, hose con. 2½-in. Canada, R. D. W. & Vulcan; valves, 527 l. h. opening; meters, 2564 Neptune, National; av. daily cons. 726,000 gal.; serv. con. 3426; ord. pres. 40 to 78 lb., fire pres. 100 to 145 lb.
Rates; meter, 25c. 100 cu. ft. max., 10c. min.

MOOSOMIM, 1,143.
MUNICIPAL.
Sec.-Treas., G. S. Page.....Moosomim
Well, pumped by gasoline engine, 50-hp.; pumping to standpipe, 100,000 gal.
Pipe, 2 mi. 6-in. iron; hyd. 16; ord. pres. 37 lb., fire pres. 125 lb.
Rates; flat, $12 year.

NORTH BATTLEFIELD, 2,105.
MUNICIPAL.
Mayor, K. A. Foley.....North Battlefield
Comr., H. W. Dixon..... " "
Comr. & Engr.,
J. B. Stirling..... " "
Supt., Edward Adams.... " "
Cons. Engrs., Chipman & Power,
Mail Bldg., Toronto, Ont.
Saskatchewan River & wells, 2 open 25 ft. & 35 ft. in diam. 20 & 25 ft. deep; ¾ mi. from center business section; natural sand filtration.
Pumps, 1-430,000 gal. vert. triplex Canada 1909, geared to elec. motor, 50-hp. 2200 v. 3 ph. 60 cys. G. E. 1909, 1-430,000 gal. vert. triplex 1909 geared to gasoline engine; elec. energy from municipal power station; pumping to reservoirs, 2-500,000 gal. & standpipe (1909) 156,000 gal.
Pipe, 10 mi. 4 to 10-in. c. i.; hyd. 150, hose con. 2½-in. Canada & Kerr; valves, 200 l. h. opening; meters, 250 Neptune & National; av. daily cons. 100,000 gal. 70%; serv. con. 350; ord. pres. 40 to 60 lb., fire pres. 80 to 115 lb.
Rates; meter, min. charge $1 mo. 200 cu. ft., 50c. 100 cu. ft. max., 30c. min.

PRINCE ALBERT, 2,654.
MUNICIPAL.
City Engr., H. M. Morrison..Prince Albert
Engr. P'g. Sta., O. O. Kline.. " "
North Saskatchewan River & wells, 2 open 5 ft. in diam. 30 ft. deep; ¼ mi. from business center; reservoir, 900,000 gal.; settling basin, 900,000 gal.; mech. filters, 2 Roberts; chemical, sulphate of alumina.
Boilers, 2 return tubular 100-hp. B. & W.; hand stoking; pumps, 2-800,000 gal. ea.; pumping direct & to standpipe (1907) steel.
Pipe, 27.5 mi. 4 to 12-in.; hyd. 180, hose con. 2½-in.; meters, 450 Neptune; av. daily cons. 600,000 gal.; serv. con. 850;

ord. pres. 55 to 80 lb., fire pres. 80 to 120 lb.

Rates; flat, $9 year, bath 3, closet $2.

REGINA, 30,213.

MUNICIPAL.

Supt., L. M. Mackay.....Regina

Wells, 45 artesian 6-in. 60 to 170 ft. deep; 8 mi. from center business section; pumps driven by oil engines, 2 80-hp. Crossley; pumping to reservoirs, 2-10,000,000 gal.

Pipe, 58.5 mi. 6 to 36-in. c. i.; hyd. 485; meters, 1467 National & Neptune; av. daily cons. 2,250,000 gal.; serv. con. 3674; ord. pres. 30 to 45 lb., fire pres. 75 to 110 lb.

Rates; flat, $2.60 quarter, bath 75c., closet 75c.; meter, 25c. 1000 gal., max., 6c. min.

SASKATOON, *30,000.

MUNICIPAL.

Mayor, F. E. Harrison.....Saskatoon
Sec., Geo. Johnston..... "
City Engr., G. V. Archibold..... "
Supt. Filtration, S. V. Wright... "

South Saskatchewan River & well, 20 ft. in diam. 55 ft. deep; settling basin, 2,000,000 gal.; mech. filters, 4,000,000 gal.; chemicals, sulphate of alumina & hypochlorite of lime.

Boilers, 2 water-tube 250-hp. ea. B. & W.; hand stoking; pumps, 6-5,500,000 gal. De Laval; elec. motors, 261 kw. 2200 v. 3 ph. 60 cys. Westg.; pumping direct & to standpipes, 2 (1908, 1910).

Pipe, 47.25 mi. 4 to 30 in. c. i.; hyd. 459, hose con. 2½-in. R. D. W. & Kerr; meters, 2500 Neptune; av. daily cons. 2,000,000 gal.; serv. con. 2000 ord. pres. 50 lb., fire pres. 125 lb.

SWIFT CURRENT, 1,852.

MUNICIPAL.

Supt., Ward Turler.....New Zealand
Cons. Engr., J. B. Whitmore. " "
Engr. P'g. Sta., P. T. Cowne. " "

Creek; reservoir, 100,000,000 gal.; settling basin, 52,000 gal.

Pumps, 1-900,000 gal. hor. centrifugal McDougall 1910, 1-600,000 gal. hor. centrifugal McDougall 1910 both belted to gas engines, 85 & 95-hp. Crossley 1910; pumping direct.

Pipe, 13.7 mi. 6 to 12-in. c. i. & steel; hyd. 90, hose con. 2-in. Vulcan, Ludlow & Rensselaer; valves, 200 l. h. opening Ludlow & Rensselaer; meters, 340; av. daily cons. 125,000 gal.; serv. con. 368; ord. pres. 60 to 80 lb., fire pres. 80 to 125 lb.

Rates; meter, min. charge $1.75 mo. 4300 gal., 35c. 1000 gal. max., 13c. min.

WEYBURN, 2,210.

MUNICIPAL.

Supt., M. Murray.....Weyburn

Wells; 1.25 mi. from center business section; pumps driven by elec. motor, 50-hp. & gasoline engine; pumping to standpipe, 160,000 gal.

Pipe, 5 mi. 4 to 8-in.; hyd. 55; av. daily cons. 50,000 gal.; serv. con. 120; ord. pres. 60 lb., fire pres. 110 lb.

Rates; meter, $1.20 for 1000 gal. max., 40c. min.

YELLOW GRASS, *600.

MUNICIPAL.

Chmn. Comrs., A. S. Baker...Yellow Grass
Comr., A. Cooper..... " "
" J. Thornton..... " "
Supt., A. P. White..... " "

Wells, 20 ft. in diam. 40 ft. deep; one mi. from center business section; no purification.

Pumps, 1-120,000 gal. vert. S. F. M. 1908 belted to gasoline engine, 10-hp. F. M. 1908, 1-480,000 gal. hor. duplex F. M. 1908 belted to oil engine, 6-hp. International 1908; pumping to pressure tank, 30,000 gal.

Pipe, 4-in.; hyd. 15, hose con. 3-in.; valves, 8 r. h. opening F. M.; av. daily cons. 20,000 gal.; serv. con. 210; ord. pres. 60 to 80 lb., fire pres. 80 lb.

YORKTON, *2,309.

MUNICIPAL.

Supt., W. H. Calbot.....Crosbie

Wells, open with 5 well points.

Pumps, 2-500,000 gal. ea. hor. duplex 1906 belted to elec. motor & gasoline engines, 1-250,000 gal. hor. centrifugal 1914 d. con to elec. motor; elec. motors, 7.5 & 50-hp. 550 v. 3 ph. 60 cys. 1913 & 1914; gasoline engines, 2 30-hp. ea. F. M. 1906; pumping to tank.

Pipe, 10 mi. 4 to 8-in. c. i.; hyd. 80, hose con. 2½-in.; meters, 350 Neptune; av. daily cons. 84,000 gal. 64%; serv. con. 350 ord. pres. 35 lb., fire pres. 100 lb.

Rates; meter, 40c. 100 cu. ft.

NEWFOUNDLAND

ST. JOHNS, 32,292.

MUNICIPAL.

Supt., John Ryan.....St. Johns
Cons. Engr., F. Longley,
30 E. 42d St., New York, N.Y.

Windsor Lake; gravity distribution.

Hyd. 260, hose con. 2½-in. Chapman; valves, Kennedy & Kilmarnock; av. daily cons. 5,750,000 gal.

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